

PISTON RING SETS & CYLINDER LINERS

For Automotive Engines & Construction Machines

Vol. 37 ver.2



NIPPON PISTON RING CO.,LTD.



▲Head Office 本社



▲Tochigi Plant 栃木工場



▲NPR Fukushima Works Co.,Ltd. (株)日ビス福島製造所



▲NPR Iwate Co.,Ltd./Ichinoseki Plant (株)日ビス岩手／一関工場



▲NPR Iwate Co.,Ltd./Senmaya Plant (株)日ビス岩手／千厩工場

Introducing **NPR**

Nippon Piston Ring Co., Ltd. was founded in 1931 as the first piston ring manufacturer in Japan. The company has been continuously engaged in the production of various engine components for over half a century.

Engines are constantly being developed and made more efficient. Manufacturers of engine parts, together with engine builders, have to meet the technical challenges modern designs present to them.

NPR has 18 engine test benches of its own, where its products are constantly tested and improved to ensure they are suitable for commercial use.

NPR's products are supplied to every manufacture of internal combustion engines in Japan. Many are also exported both as original equipment and after market parts to overseas market.

Abroad, NPR's international operation continues to expand with many agents and distributors in many countries.



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～1945

In order to commence local production of piston rings Tomonori Suzuki established in 1931 the Nippon Piston Ring Works in Kawaguchi, Saitama. Until that time all piston rings were imported into Japan. The new company was incorporated into Nippon Piston Ring Co., Ltd. in 1934 with a capital of ¥1 million. With the expanding demand for piston rings for use in trucks, aircrafts and ships NPR's production facilities were progressively enlarged and the Yono Plant was opened in 1939.

～1955

Production of piston rings was restarted in 1946 after the end of World War II. In 1950, NPR introduced for the first time in Japan, chrome plated piston rings for use in repaired automobile engines and in 1953 these were also adopted by original equipment engine manufacturers. In the same year, the company was authorized to use the Japan Industrial Standard notation for piston rings (JIS-8032).

～1965

Following on its success with chrome plating technology, NPR announced the development of Japan's first high strength cast irons, NIPPALLOY and UBALLOY. These were followed in 1968 with the boron cast iron TARKALLOY. All these alloys represented a major step forward in the development of wear resistance material and the technology was subsequently licensed to a number of companies, both Japanese and foreign. Today these materials are still specified as standard materials for engine components. In 1961, NPR introduced Japan's first steel rail three piece oil control ring known as NIFFLEX. This represented a major change in design of oil control rings which until this time had always been traditional cast iron type.

～1975

Emission control of automotive engines to reduce and limit air pollution became a major problem with all leading component manufactures called on to provide technical solution. NPR was in the forefront of development with piston rings for use in lead-free gasoline engines followed by new production of such valve train parts as valve seat inserts, camshafts and tappets.

NPR's overseas activities were stepped up. Expanding its export marketing, NPR was commended in 1966 by the Ministry of International Trade and Industry (MITI) as a distinguished exporting enterprise.

～1985

Engine technology in Japan made remarkable progress during these years, leading to the achievement of unparalleled compactness, light weight and high performance, which won high reputation for Japanese built engines throughout the world. The production of

engines for construction machinery, forklifts and pumps, plus machinery for agriculture or horticulture also increased remarkably NPR products featured extensively in all these engines.

In 1982, production of cylinder liners, camshafts and sintered metal products was transferred to the new Fukushima Works. In 1984, NPR closed down its Kawaguchi Plant and opened its newly built Tochigi Plant in Nogi-machi, Tochigi, to give NPR a new production line-up comprising three factories—Yono, Tochigi and Fukushima.

～1995

This is a difficult and challenging era with an ever increasing range of requirements presenting themselves from international markets. As a dedicated and specialized manufacturer of functional components NPR continues in its efforts to meet these requirements from both domestic and overseas customers.

Production of narrow steel compression rings with special surface treatment, liners for aluminum cylinder blocks and composite sintered valve seat inserts has been increased to meet the requirement for fuel-efficient, high-performance and durable engine parts. In 1986, NPR commenced massive exports of P/M camshafts to U.S.A

In order to increase the production capacity of piston rings NPR established in 1990 the NPR Iwate/Senmaya. In 1992, NPR started series supply of big volume piston rings to Mercedes-Benz AG (present Daimler AG), Germany.

1996～

Aiming at a reliable global supplier, NPR is expanding the bases, both Japanese and foreign.

In Japan, NPR head office was moved from Tokyo to Saitama in 1998. In 2002, production of piston rings in Yono Plant (in Saitama) was transferred to the newly built NPR Iwate/Ichinoseki Plant, and in 2003, NPR closed down the Yono Plant.

NPR Head Office, Tochigi Plant, NPR Iwate, and NPR Fukushima Works, together were certified in ISO9001, QS9000, ISO14001, and ISO/TS16949:2002 with being recognized their excellence in quality control.

In 2004, NPR celebrated the 70th anniversary of foundation with thanks.

On the other hand, overseas production bases were expanded mainly for the business of piston rings/valve seat inserts, and NPR established production bases in ASEAN, China and North America, respectively.

Moreover, as for the overseas sales offices, NPR established NPR of Europe GmbH in Germany in 1999 as a sales base of OE supply to European automobile manufacturer, and established NPR Singapore Pte.Ltd in 2005. These resulted to give NPR a new overseas sales office line-up—U.S.A., Germany, Singapore, China, and South Korea.



You can check the latest version of
NPR's catalog on the following website.

<http://www.npr-japan.com>



Click here!

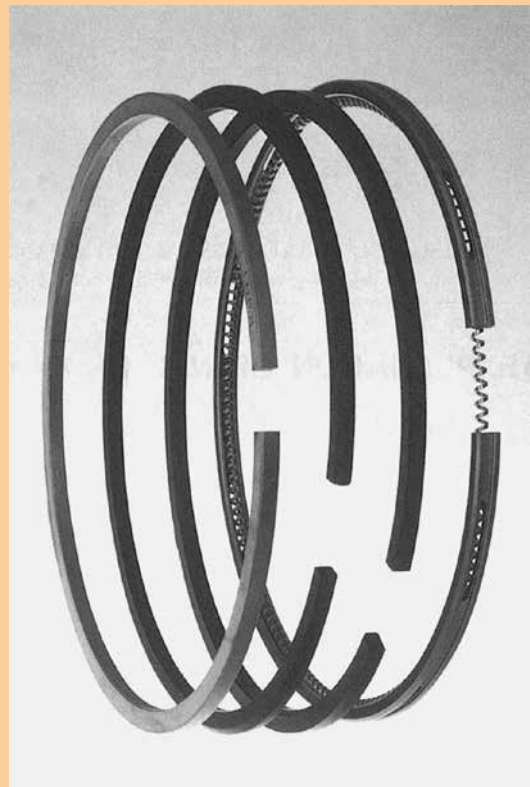


NIPPON PISTON RING CO.,LTD.

5-12-10, Honmachi-Higashi, Chuo-ku Saitama-City, Saitama JAPAN

A496A-3-1501-400(TOP)

PISTON RING SETS



● EXPLANATION OF NPR PRODUCT CODE No. / セットコードNo.の解説

Example

SW T10 105 ZZ

Maker Code

Drawing No.

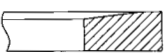
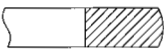
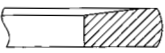
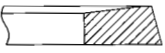
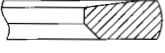
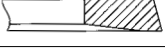
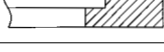
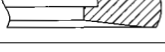
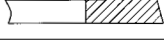
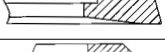
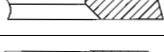
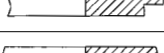
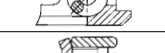
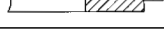
ZZ·ZY : STD.Spec

ZX : "SS999"Spec

● MAKER CODE

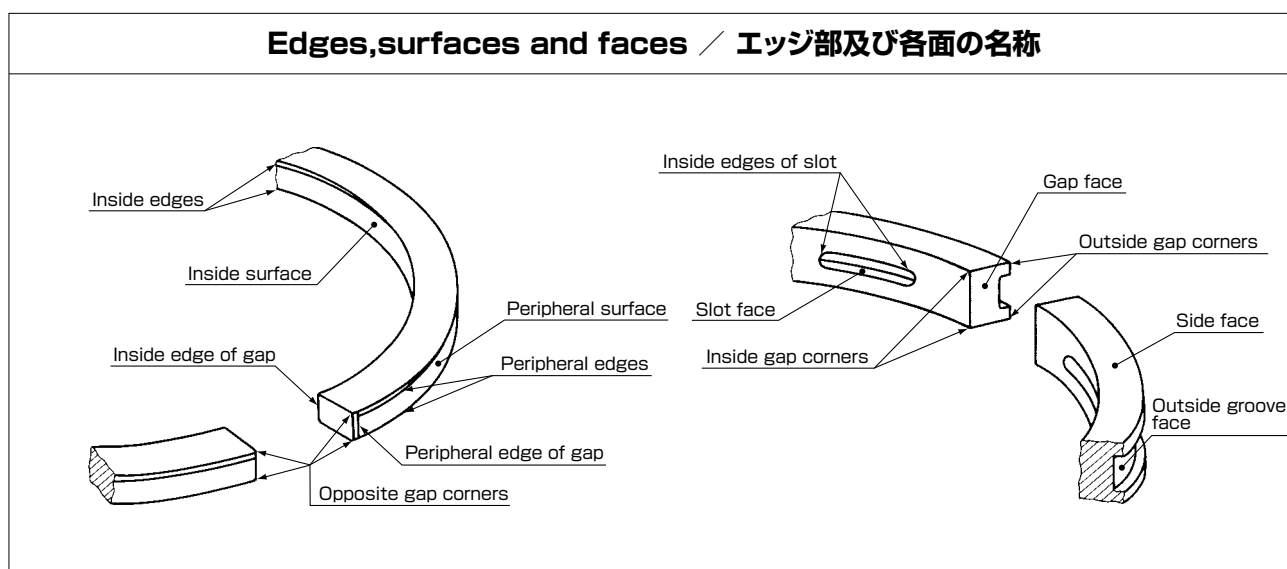
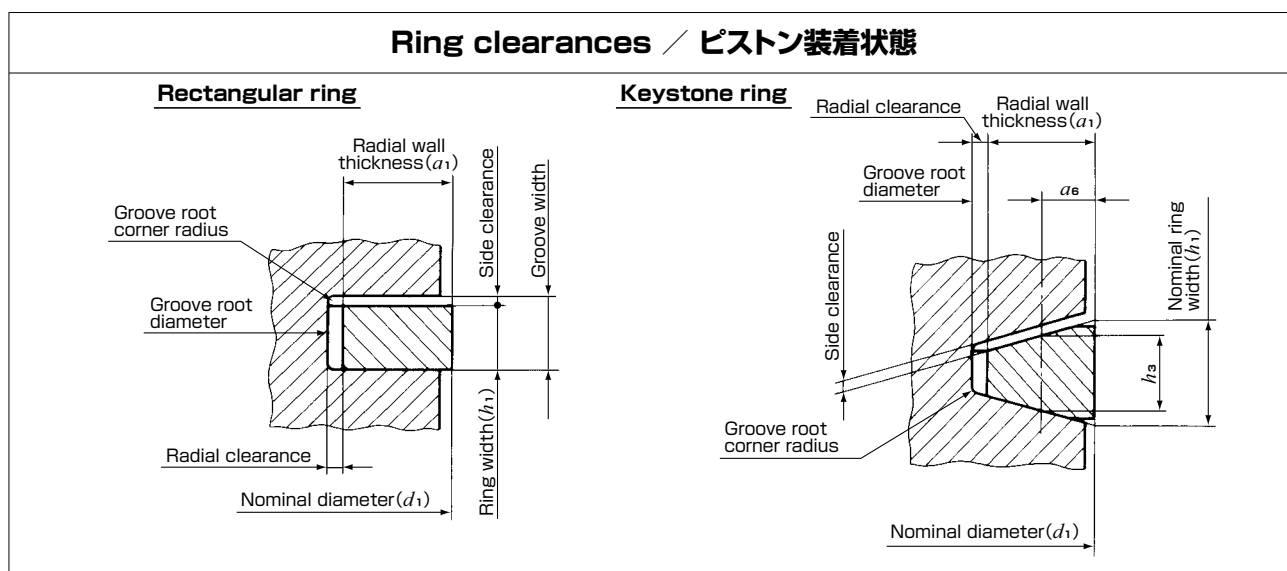
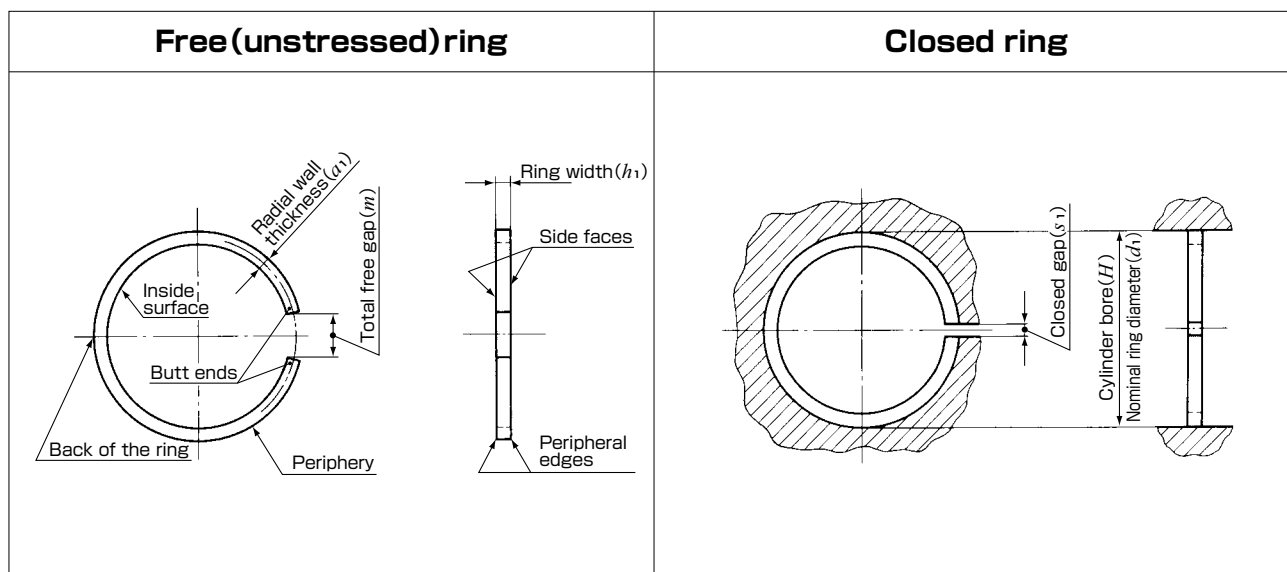
D10 : DAIHATSU	S20 : SUZUKI
F20 : SUBARU	T10 : TOYOTA
H20 : HINO	T20 : MAZDA
H30/H33 : HONDA	A20 : ASIA
I10 : ISUZU	D20 : DAEWOO
K04 : KOMATSU	G30 : HYUNDAI
M30 : MITSUBISHI	K30 : KIA
M31 : MITSUBISHI	C10 : CHRYSLER
N30 : NISSAN	F30 : FORD
N31 : UD TRUCKS	G10 : GM

● Cross-section configuration · Material / 断面形状・材料

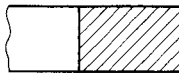
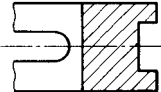
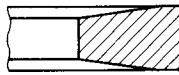
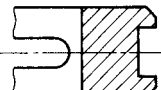
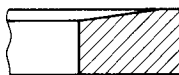
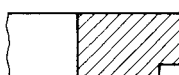
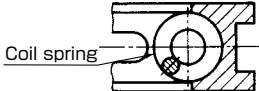
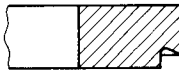
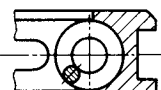
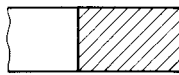
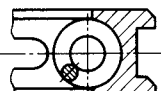
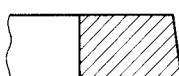
Cross-section configuration / Configuration Code				● Material code : Material name
	P		K2	CR : NPR cast iron
	BF		BF-K2 · BF-K4	HB : NIPPALLOY (Spheroidal graphite cast iron)
	T1 B1-T1		T1-K2 T1-K3	SR : Steel
	IB		BF-K3	● Code : Surface treatment
	BF-IB · BF-IC		BF-K1	Fe : Phosphated
	T1-IB		T1-K1	Cr : Chromium plated
	IC		BF-K1-IC	GN : Nitrided
	T1-IC		T1-K1-IC T1-K1-IB	PC : PVD
	T1-RB		C1 · BC1 · BC3 BC16	W : No coating
	B1-TUC B1-UC		E-C1 · E-C3 E-BC1 · E-BC3 · E-BC16	(Cutter oil control ring)
	TUC UC		NIFF-S · NIFF-H	(2-Piece oil control ring)
				(3-Piece oil control ring)

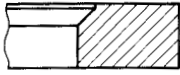
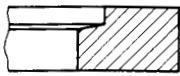
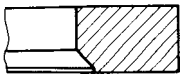
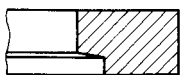
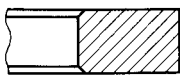
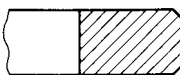
Above figures show basic cross-section configuration but not in detail.

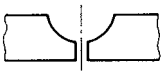
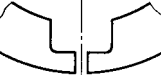
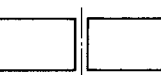
● Piston ring nomenclature and symbols / ピストンリング各部の名称と記号



● Piston ring types / ピストンリングの形状

Compression ring			Oil control ring		
Cross-section configuration	Rectangular ring		Cross-section configuration	Slotted oil control ring	
	Keystone ring			Bevelled-edge oil control ring	
	Half Keystone ring			Double-bevelled oil control ring	
	Scraper ring (stepped)			Coil spring loaded slotted oil control ring	
	Napier ring (undercut step)			Coil spring loaded bevelled-edge oil control ring	
Face configuration	Straight-faced			Coil spring loaded double-bevelled oil control ring	
	Barrel-faced			Expander/Segment oil control ring	
	Taper-faced				

Edge configuration	
Internal bevel top (positive twist type)	
Internal step top (positive twist type)	
Internal bevel bottom (negative twist type)	
Internal step bottom (negative twist type)	
Inside edges chamfered	
Outside edges chamfered	
Inside and outside edges chamfered	

Joint configuration	
Joint with side notch	
Joint with internal notch	
Joint (straight)	
Oblique joint (angle)	
Stepped joint (angle)	

● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
EB	547	Mira	SWD10029ZZ	3	1st	62.0	1.2	2.5	BF-IB	SR	Cr	Fe	13011-87206
					2nd	62.0	1.5	2.5	T1	CR	Fe	Fe	13011-87222
					Oil	62.0	2.8	2.8	NIFF-S	SR	GN	GN	
KF-VE KF-VE3	658	Pixis	SWD10049ZZ	3	1st	63.0	1.0	2.27	BF-IB	SR	Cr	Fe	13011-B2020
					2nd	63.0	1.2	2.3	TUC	CR	Fe	Fe	13011-B2021
					Oil	63.0	2.0	2.35	NIFF-H	SR	Cr	Fe	13011-B2041
		Mira Move Esse	SWD10052ZZ	3	1st	63.0	1.0	2.25	BF-IB	SR	Cr	Fe	13011-B2091
					2nd	63.0	1.0	2.1	TUC	SR	Fe	Fe	
					Oil	63.0	1.5	2.2	NIFF-H	SR	Cr	Fe	
ED-10	847	Mira Cuore	SWD10045ZZ	3	1st	66.6	1.2	2.5	BF	SR	GN	GN	13011-87208
					2nd	66.6	1.5	2.8	TUC	CR	Fe	Fe	13011-87232
					Oil	66.6	2.8	2.55	NIFF-S	SR	GN	GN	
			SWD10051ZZ	3	1st	66.6	1.2	2.3	BF	SR	GN	GN	13011-97209
					2nd	66.6	1.2	2.6	TUC	CR	Fe	Fe	
					Oil	66.6	2.0	2.2	NIFF-H	SR	GN	GN	
FE051	958	Belrina	SWD10020ZZ	4	1st	68.0	2.0	3.0	T1	CR	Cr	Fe	13011-87103
					2nd	68.0	2.0	3.0	T1	CR	Fe	Fe	
					Oil	68.0	4.0	3.1	NIFF-S	SR	Cr	Fe	
EF	659	Mira Move Hijet Opti Atray	SWD10033ZZ	3	1st	68.0	1.2	2.67	BF-IB	SR	Cr	Fe	13011-87219
					2nd	68.0	1.5	2.8	TUC	CR	Fe	Fe	
					Oil	68.0	2.8	2.55	NIFF-S	SR	Cr	Fe	
			SWD10044ZZ	3	1st	68.0	1.2	2.67	BF-IB	SR	Cr	Fe	13011-97204-A
					2nd	68.0	1.2	2.8	TUC	CR	Fe	Fe	13011-97203
					Oil	68.0	2.5	2.5	NIFF-S	SR	Cr	Fe	
EF-VD	659	Mira	SWD10046ZZ	3	1st	68.0	1.0	2.1	BF-IB	SR	GN	GN	13011-97206
					2nd	68.0	1.2	2.2	TUC	CR	Cr	Fe	
					Oil	68.0	2.0	2.25	NIFF-H	SR	GN	GN	
CD	843	Charade	SWD10028ZZ	3	1st	70.0	1.5	2.65	BF	SR	Cr	Fe	13011-87712
					2nd	70.0	1.5	3.1	T1	CR	Fe	Fe	13013-87710(0.5)
					Oil	70.0	2.8	2.85	NIFF-S	SR	GN	GN	
1KR-VE	998	Siga	SWT10265ZZ	3	1st	71.0	1.0	2.3	BF-IB	SR	GN	GN	13011-BZ150
					2nd	71.0	1.0	2.3	TUC	SR	Fe	Fe	
					Oil	71.0	2.0	2.2	NIFF-H	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
AB AB10 AB20 AB30 AB40 AB50 AB55	547	Fellow Max Mira Wide Cab Hijet	SWD10023ZZ	2	1st	71.6	1.5	3.0	BF	CR	Cr	Fe	13011-87710
					2nd	71.6	1.5	3.0	TUC	CR	Fe	Fe	13011-87714
					Oil	71.6	2.8	3.35	NIFF-S	SR	Cr	Fe	13011-87701
													13011-87702
													13011-87705
													13011-87709
950G	952	Vanguard	SWD10041ZZ	3	1st	72.0	1.5	3.0	BF	CR	Cr	Fe	13011-87803
					2nd	72.0	1.5	2.9	T1	CR	Fe	Fe	
					Oil	72.0	2.8	2.55	NIFF-S	SR	Cr	Fe	
EJ-DE	989	Mira Gino Storia	SWD10047ZZ	3	1st	72.0	1.2	2.45	BF-IB	SR	Cr	Fe	13011-97201-000
					2nd	72.0	1.2	2.9	TUC	CR	Fe	Fe	13011-97202
					Oil	72.0	2.5	2.55	NIFF-S	SR	Cr	Fe	
K3-VE K3-DE K3-VE2 K3-VET	1,297	Storia Terios	SWD10050ZZ	4	1st	72.0	1.2	2.45	BF-IB	SR	Cr	Fe	13011-97401-000
					2nd	72.0	1.2	2.6	TUC	CR	Fe	Fe	
					Oil	72.0	2.0	2.3	NIFF-H	SR	Cr	Fe	
EJ-VE	989	Cuore Mira Gino 1000 Storia Trevis Viva	SWD10053ZZ	3	1st	72.0	1.2	2.5	BF-IB	SR	GN	GN	13011-BZ020-B
					2nd	72.0	1.2	2.3	TUC	HB	Fe	Fe	
					Oil	72.0	2.0	2.25	NIFF-H	SR	GN	GN	
1NR-VE	1,329	Avanza Xenia Sirion Bezza	SWD10054ZZ	4	1st	72.5	1.2	2.5	BF	SR	GN	GN	13011-0Y030
					2nd	72.5	1.0	2.3	TUC	SR	Fe	Fe	
					Oil	72.5	2.0	2.25	NIFF-H	SR	GN	GN	
CB-10 CB-20	993	Charade	SWD10024ZZ	3	1st	76.0	1.5	3.1	T1	CR	Cr	Fe	13011-87704
					2nd	76.0	1.5	3.1	T1	CR	Fe	Fe	13011-87708
					Oil	76.0	2.8	3.15	NIFF-S	SR	Cr	Fe	
HD-E HD-E1 HD-EG HD-EP HD-F1	1,589	Feroza	SWD10034ZZ	4	1st	76.0	1.2	2.7	BF-IB	SR	Cr	Fe	13011-87110
					2nd	76.0	1.5	3.2	TUC	CR	Fe	Fe	
					Oil	76.0	3.0	2.55	NIFF-S	SR	Cr	Fe	
HC-E HC-EH HC-F	1,295	Charade Feroza Rocky	SWD10031ZZ	4	1st	76.0	1.2	2.85	BF-IB	SR	Cr	Fe	13011-87104
					2nd	76.0	1.5	3.2	T1	CR	Fe	Fe	13011-87105
					Oil	76.0	3.0	2.85	NIFF-S	SR	GN	GN	13011-87106
													13011-87107
													13011-87108
CB90	997	Charade	SWD10036ZZ	3	1st	76.0	1.5	2.9	BF	SR	GN	GN	13011-87727
					2nd	76.0	1.5	3.1	T1	CR	Cr	Fe	
					Oil	76.0	2.8	2.55	NIFF-S	SR	GN	GN	

[illegible]

● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
EN07	658	Pleo Rex Vivio	SWF20076ZZ	4	1st	56.0	1.2	2.25	BF-IB	SR	Cr	Fe	12033-KA790
					2nd	56.0	1.2	2.45	T1-IB	CR	Fe	Fe	
					Oil	56.0	2.0	2.25	NIFF-H	SR	Cr	Fe	
E42 EK42	665	Subaru Rex	SWF20052ZZ	2	1st	78.0	1.2	3.0	BF	SR	Cr	Fe	48003-5600
					2nd	78.0	1.5	3.3	T1	CR	Cr	Fe	48003-5610
					Oil	78.0	2.8	2.8	NIFF-S	SR	Cr	Fe	
EF10	997	Domingo Justy	SWF20054ZZ	3	1st	78.0	1.2	3.0	BF	SR	Cr	Fe	48003-5800
EF12	1,189				2nd	78.0	1.5	3.3	T1	CR	Cr	Fe	
					Oil	78.0	2.8	2.8	NIFF-S	SR	Cr	Fe	
FB16	1,599	Impreza sport 1.6i	SWF20074ZZ	H4	1st	78.8	1.0	2.47	BF-IB	SR	Cr	Fe	12033-AC270
					2nd	78.8	1.0	2.5	TUC	SR	Fe	Fe	
					Oil	78.8	2.0	2.45	NIFF-H	SR	Cr	Fe	
E62S EA62	1,267	Subaru 1300G	SWF20010ZZ	H4	1st	82.0	2.0	3.8	T1	CR	Cr	Fe	88003-8600
					2nd	82.0	2.0	3.6	T1	CR	Fe	Fe	
					Oil	82.0	4.0	3.8	NIFF-S	SR	Cr	Fe	
EA65	1,298	Subaru 1300G	SWF20032ZZ	H4	1st	83.0	1.2	3.25	BF	SR	Cr	Fe	48003-7010
					2nd	83.0	1.5	3.6	T1	CR	Fe	Fe	
					Oil	83.0	4.0	3.6	NIFF-S	SR	Cr	Fe	
FB20	1,995	Forester Impreza VX	SWF20073ZZ	H4	1st	84.0	1.0	2.67	BF-IB	SR	Cr	Fe	12033-AC210
					2nd	84.0	1.0	2.7	TUC	SR	Fe	Fe	12033-AC220
					Oil	84.0	2.0	2.45	NIFF-H	SR	Cr	Fe	12033-AC230
FB20D	1,995	Impreza XV Crosstrek	SWF20077ZY	H4	1st	84.0	1.2	2.7	BF-IB	SR	GN	GN	12033-AD260
					2nd	84.0	1.0	2.7	TUC-RB	SR	Fe	Fe	
					Oil	84.0	2.0	2.45	NIFF-H	SR	PC	Fe	
E63S EA63	1,361	Subaru Leone 1400	SWF20014ZZ	H4	1st	85.0	2.0	3.9	T1	CR	Cr	Fe	38003-0110
					2nd	85.0	2.0	3.9	T1	CR	Fe	Fe	
					Oil	85.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
FA20	1,998	BRZ Forester Impreza Legacy Levorg WRX	SWF20075ZZ	H4	1st	86.0	1.2	2.7	BF	SR	GN	GN	12033-AC300
					2nd	86.0	1.0	2.7	TUC	SR	Fe	Fe	SU003-00145
					Oil	86.0	2.0	2.45	NIFF-H	SR	PC	W	
EJ18	1,820	Impreza Legacy	SWF20043ZZ	H4	1st	87.9	1.2	3.1	BF-IB	SR	Cr	Fe	12033-AA090
					2nd	87.9	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	87.9	3.0	3.1	NIFF-S	SR	Cr	Fe	
EZ30	2,999	Legacy B4 Outback Legacy Touring Wagon	SWF20070ZZ	H6	1st	89.2	1.2	3.05	BF-IB	SR	Cr	Fe	12033-AB130
					2nd	89.2	1.2	3.6	TUC	CR	Fe	Fe	
					Oil	89.2	2.5	2.9	NIFF-H	SR	Cr	Fe	

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Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
EA71	1,595	Subaru Leone 1600 (SEECT)	SWF20017ZZ	H4	1st	92.0	2.0	4.0	BF	CR	Cr	Fe	38003-4320 38003-4300
					2nd	92.0	2.0	4.0	T1	CR	Fe	Fe	
					Oil	92.0	4.0	3.9	NIFF-S	SR	Cr	Fe	
EJ20	1,994	Legacy Forester	SWF20044ZZ	H4	1st	92.0	1.5	3.3	BF-IB	SR	Cr	Fe	12033-AA610
					2nd	92.0	1.5	3.7	TUC	CR	Fe	Fe	
					Oil	92.0	3.0	3.1	NIFF-S	SR	Cr	Fe	
			SWF20060ZZ	H4	1st	92.0	1.2	3.3	BF-IB	SR	Cr	Fe	12033-AB070 12033-AB100 12033-AB160 12033-AB220
					2nd	92.0	1.2	3.8	TUC	CR	Fe	Fe	
					Oil	92.0	2.5	2.8	NIFF-S	SR	Cr	Fe	
		Legacy	SWF20051ZZ	H4	1st	92.0	1.2	3.3	BF-IB	SR	Cr	Fe	12033-AA640
					2nd	92.0	1.5	3.7	TUC	CR	Fe	Fe	
					Oil	92.0	3.0	3.1	NIFF-S	SR	Cr	Fe	
EA71(NEW)	1,595	Alcyone Subaru Leone	SWF20057ZZ	H4	1st	92.0	1.2	3.3	BF	SR	Cr	Fe	12033-AA000
EA81	1,781				2nd	92.0	1.5	3.7	T1	CR	Fe	Fe	12033-AA320
EA82	1,781				Oil	92.0	4.0	3.65	NIFF-S	SR	Cr	Fe	48003-7100
EJ20	1,994	Legacy	SWF20063ZZ	H4	1st	92.0	1.2	3.3	BF-IB	SR	Cr	Fe	12033-AB820
					2nd	92.0	1.2	3.8	TUC	CR	Fe	Fe	
					Oil	92.0	2.0	2.7	NIFF-H	SR	Cr	Fe	
EZ36	3,629	Outback	SWF20069ZZ	H6	1st	92.0	1.2	3.3	BF-IB	SR	Cr	Fe	12033-AC060 12033-AC180
					2nd	92.0	1.2	3.8	TUC	CR	Fe	Fe	
					Oil	92.0	2.0	2.7	NIFF-H	SR	Cr	Fe	
FB25	2,498	Forester Legacy Wagon Legacy B4 Exiga	SWF20078ZZ	H4	1st	94.0	1.0	3.1	BF-IB	SR	GN	GN	12033-AC90A 12033-AC240
					2nd	94.0	1.0	2.7	TUC	SR	Fe	Fe	
					Oil	94.0	2.0	2.45	NIFF-H	SR	Cr	Fe	
FA24F	2,387	Ascent Legacy Outback	TCC-Q-0782	H4	1st	94.0	1.2		BF-IB	SR	GN	GN	12033-AD38A
					2nd	94.0	1.2		TUC	CR	Fe	Fe	
					Oil	94.0	2.0		NIFF-H	SR	Cr	Fe	
EJ22	2,212	Legacy	SWF20045ZZ	H4	1st	96.9	1.2	3.25	BF-IB	SR	Cr	Fe	12033-AA210
					2nd	96.9	1.5	3.9	TUC	CR	Fe	Fe	
					Oil	96.9	3.0	3.3	NIFF-S	SR	Cr	Fe	
			SWF20067ZZ	H4	1st	96.9	1.5	3.25	BF-IB	SR	Cr	Fe	12033-AA390 12033-AA450 12033-AA570
					2nd	96.9	1.5	3.9	TUC	CR	Fe	Fe	
					Oil	96.9	3.0	3.3	NIFF-S	SR	Cr	Fe	
EJ25D	2,457	Legacy Forester	SWF20064ZZ	H4	1st	99.5	1.2	3.45	BF-IB	SR	Cr	Fe	12033-AA760
					2nd	99.5	1.5	4.0	TUC	CR	Fe	Fe	
					Oil	99.5	2.8	3.1	NIFF-S	SR	Cr	Fe	
EJ251 EJ252 EJ259	2,457	Legacy Forester	SWF20066ZZ	H4	1st	99.5	1.2	3.45	BF-IB	SR	Cr	Fe	12033-AB010 12033-AB020
					2nd	99.5	1.2	4.0	TUC	CR	Fe	Fe	
					Oil	99.5	2.5	2.8	NIFF-S	SR	Cr	Fe	
EJ257 EJ255 EJ253	2,457	Subaru Impreza	SWF20068ZZ	H4	1st	99.5	1.2	3.45	BF-IB	SR	Cr	Fe	12033-AB340 12033-AB250
					2nd	99.5	1.2	4.0	TUC	CR	Fe	Fe	
					Oil	99.5	2.0	2.7	NIFF-H	SR	Cr	Fe	

● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
DM100	4,313	Truck KM300 KM320 KM330 KM340 KM350 KM410 KM450 KM320D Bus RM100 BM320 Tractor HM320 HM301	SCH20004ZZ	6	1st	90.0	2.5	3.7	T1	CR	Cr	Fe	13001-1350
					2nd	90.0	2.5	3.7	T1	CR	Fe	Fe	13011-1350A
					3rd	90.0	2.5	3.7	BI-TUC	CR	Fe	Fe	3352120507
					Oil 1	90.0	4.0	3.7	BC1	CR	Cr	Fe	3352193901
					Oil 2	90.0	4.0	3.7	BC1	CR	Fe	Fe	
DQ100	4,507	Ranger	SCH20032ZZ	6	1st	92.0	2.5	3.9	T1	CR	Cr	Fe	13011-1360A
					2nd	92.0	2.5	3.9	T1	CR	Fe	Fe	
					3rd	92.0	2.5	3.9	BI-TUC	CR	Fe	Fe	
					Oil 1	92.0	4.0	3.9	BC1	HB	Cr	Fe	
					Oil 2	92.0	4.0	3.9	BC1	CR	Fe	Fe	
EC100	5,010	Truck KL300 Bus RL100 Tractor HL300	SCH20005ZZ	6	1st	97.0	2.5	4.2	BF	HB	Cr	Fe	13011-1390
					2nd	97.0	2.5	4.3	T1-IC	CR	Fe	Fe	13019-1140A(cyl)
					3rd	97.0	2.5	4.3	BI-TUC	CR	Fe	Fe	
					Oil 1	97.0	4.0	4.3	C1	HB	Cr	Fe	
					Oil 2	97.0	4.0	4.3	BC3	CR	Fe	Fe	
W04D	4,009	Ranger 3.5ton Rainbow	SDH20038ZX	4	1st	104.0	2.5	3.7	BF	SR	GN	GN	13011-1973
					2nd	104.0	2.0	4.3	T1	CR	Fe	Fe	13011-2540
					Oil	104.0	5.0	4.85	E-BC16	SR	GN	GN	13019-1150A(cyl)
W04C-TI	3,839	Rainbow	SDH20068ZX	4	1st	104.0	2.806	3.7	BF-K1	SR	GN	GN	13011-2891A
					2nd	104.0	2.5	3.7	T1-IB	SR	GN	GN	13019-1180A(cyl)
					Oil	104.0	4.0	4.35	E-BC16	SR	GN	GN	
W04D-J N04C-A	4,009	Dutro Ranger Liesse	SDH20099ZZ	4	1st	104.0	2.5	3.7	BF	SR	GN	GN	13011-3950A
					2nd	104.0	2.0	4.3	T1	CR	Fe	Fe	13019-1190A(cyl)
					Oil	104.0	4.0	4.35	E-BC16	SR	GN	GN	13011-E0110
W04C-T	3,839	Bus Rainbow RW RB145	SDH20047ZX	4	1st	104.0	2.806	3.7	BF-K1	SR	GN	GN	13011-2270A
					2nd	104.0	2.5	4.3	T1-IC	CR	Fe	Fe	13011-2270C
					Oil	104.0	5.0	4.85	E-BC3	CR	Cr	Fe	13011-2550B 13019-1160A(cyl)
N04C-T	4,009	Dutro Toyoace Dyna	SDH20101ZY	4	1st	104.0	2.5	3.7	BF	SR	GN	GN	13011-4020A
					2nd	104.0	2.0	3.7	T1	SR	GN	GN	
					Oil	104.0	4.0	4.35	E-BC16	SR	GN	GN	

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Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
W06D	5,759	AC Rainbow	SDH20041ZX	6	1st	104.0	2.5	3.7	BF	SR	GN	GN	13011-1983
					2nd	104.0	2.0	4.3	T1	CR	Fe	Fe	13011-2440
					Oil	104.0	5.0	4.85	E-BC16	SR	GN	GN	13011-2550B
W04D-TK	4,009	Ranger Dutro Rainbow	SDH20103ZX	4	1st	104.0	2.806	3.7	BF-K1	SR	GN	GN	13011-4080B
					2nd	104.0	2.0	4.3	T1	CR	Fe	Fe	13011-4080C
					Oil	104.0	4.0	4.35	E-BC16	SR	GN	GN	13011-E0200 13019-1170A (cyl) S1304-E0160 (cyl)
DS70 DS90	7,013	Truck KC300 KC320 TE11 TE61 TE61D Bus RD100 BK11 BT10 BT30 BT31	SCH20006ZZ	6	1st	105.0	3.0	4.2	T1	CR	Cr	Fe	13011-1210
					2nd	105.0	3.0	4.2	BI-TUC	CR	Fe	Fe	13011-1550
					3rd	105.0	3.0	4.2	BI-TUC	CR	Fe	Fe	13011-1550A
					Oil 1	105.0	4.5	4.2	BC1	HB	Fe	Fe	13019-1220A(cyl)
					Oil 2	105.0	4.5	4.2	BC1	HB	Fe	Fe	
EH100	5,871	Truck BH15 KL500 HL100 Bus BX320 Tractor HL100	SCH20021ZX	6	1st	105.0	2.5	3.85	BF	SR	Cr	Fe	13011-1150
					2nd	105.0	2.5	4.3	T1-IC	CR	Fe	Fe	13019-1210A(cyl)
					3rd	105.0	2.5	4.3	BI-TUC	CR	Fe	Fe	
					Oil 1	105.0	4.0	4.3	C1	CR	Cr	Fe	
					Oil 2	105.0	4.0	4.3	BC3	CR	Fe	Fe	
H07B-TI	6,224	For Marine	SDH20089ZZ	6	1st	105.8	2.948	3.95	BF-K1	SR	GN	GN	13011-3630A
					2nd	105.8	2.0	4.40	T1-IC	HB	Cr	Fe	13019-1240A(cyl)
					Oil	105.8	4.0	4.35	E-BC16	SR	GN	GN	
H06B-TI	6,224	Ranger	SDH20097ZZ	6	1st	105.8	2.806	3.95	BF-K1	SR	Cr	Fe	13011-3850A
					2nd	105.8	2.5	4.4	T1-IC	HB	Cr	Fe	
					3rd	105.8	2.5	4.4	BI-TUC	HB	Cr	Fe	
					Oil	105.8	4.0	4.15	E-BC16	SR	Cr	Fe	
			SDH20064ZZ	6	1st	105.8	2.806	3.95	BF-K1	SR	Cr	Fe	13011-E0440
					2nd	105.8	2.5	4.4	T1-IC	HB	Cr	Fe	
					3rd	105.8	2.5	4.4	BI-TUC	HB	Cr	Fe	
					Oil	105.8	5.0	4.7	E-BC3	HB	Cr	Fe	
EH300	6,211	Truck KR301 KL501 Bus RL300 RD300	SDH20022ZX	6	1st	108.0	3.0	4.05	BF	SR	Cr	Fe	13011-1032
					2nd	108.0	2.5	4.5	T1-IC	CR	Cr	Fe	13011-1032A
					Oil 1	108.0	5.0	4.95	E-BC16	SR	GN	GN	13011-1062
					Oil 2	108.0	4.0	4.5	BC3	CR	Fe	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
H06C-TA	6,485	Ranger 4.25ton FD	SDH20037ZX	6	1st	108.0	2.806	4.05	BF-K1	SR	Cr	Fe	13011-1961
					2nd	108.0	2.5	4.5	T1-IC	CR	Fe	Fe	13011-2450B
					3rd	108.0	2.5	4.5	BI-TUC	CR	Cr	Fe	13011-3200A
					Oil	108.0	5.0	4.95	E-BC16	SR	GN	GN	13019-1260A(cyl)
H06C EH500	6,485	Ranger 4E	SDH20042ZX	6	1st	108.0	3.0	4.05	BF	SR	Cr	Fe	13011-2080
					2nd	108.0	2.5	4.5	T1-IC	CR	Fe	Fe	13011-2081B
					3rd	108.0	2.5	4.5	BI-TUC	CR	Cr	Fe	13019-1750A(cyl)
					Oil	108.0	5.0	4.95	E-BC16	SR	GN	GN	
H06C-TI	6,485	Ranger Selega	SDH20075ZZ	6	1st	108.0	2.806	4.5	BF-K1-IC	HB	Cr	Fe	13011-3281A
					2nd	108.0	2.5	4.5	T1-IC	CR	Fe	Fe	13019-1270A(cyl)
					3rd	108.0	2.5	4.5	BI-TUC	CR	Cr	Fe	
					Oil	108.0	4.0	4.15	E-BC16	SR	Cr	Fe	
DS50	7,982	Truck	SDH20007ZX	6	1st	110.0	3.0	3.9	T1	SR	GN	GN	13011-1230
DS60		TA14 TA14D			2nd	110.0	3.0	4.5	T1	CR	Fe	Fe	13011-1250
		TC51 TH17			3rd	110.0	3.0	4.5	TUC	CR	Fe	Fe	13011-1261
		TH61 TH80			Oil 1	110.0	4.5	4.4	E-BC3	CR	Cr	Fe	13011-1650
DS80		TH320 TH340D			Oil 2	110.0	4.5	4.5	BC1	CR	Fe	Fe	13011-1830
		2C440 2C340D											
	2H11D 2H12D												
	2K11 2L100												
	Bus												
		BD15 BD15F											
		BD35 BD35P											
		BG13 BH15											
		BT51 BT51S											
		BT71 RB10											
		RB10P RB120											
		RB120P											
EH700 H07C	6,443	Ranger 4D	SDH20043ZX	6	1st	110.0	3.0	4.1	BF	SR	GN	GN	13011-1610B
		Ranger 5			2nd	110.0	2.5	4.5	T1-IC	CR	Fe	Fe	13011-1620
		Ranger 7D			3rd	110.0	2.5	4.5	BI-TUC	CR	Cr	Fe	13011-1620A
		Truck			Oil	110.0	5.0	4.95	E-BC16	SR	GN	GN	13011-1620B
		KLSD KP6D											13011-2070A
													13011-2090
													13011-3010A
													13011-3020A
													13011-3120A
													13019-1310A(cyl)
H07D	7,412	Ranger	SDH20056ZX	6	1st	110.0	3.0	4.1	BF	SR	GN	GN	13011-2650A
					2nd	110.0	2.0	4.5	T1-IC	CR	Cr	Fe	13011-2651A
					Oil	110.0	4.0	4.35	E-BC16	SR	GN	GN	13019-1300A(cyl)

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G M
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Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
H07CT	6,728	Ranger SD	SDH20057ZX	6	1st	110.0	2.806	4.05	BF-K1	SR	Cr	Fe	13011-2672A
					2nd	110.0	2.0	4.5	T1-IC	CR	Cr	Fe	13019-3270A
					3rd	110.0	2.5	4.5	BI-TUC	CR	Cr	Fe	13019-1330A(cyl)
					Oil	110.0	4.0	4.35	E-BC16	SR	GN	GN	
			SDH20079ZX	6	1st	110.0	2.806	4.5	BF-K1-IC	HB	Cr	Fe	13011-3470A
					2nd	110.0	2.0	4.1	T1-IB	SR	GN	GN	13011-3510A
					3rd	110.0	2.0	4.5	BI-TUC	HB	Cr	Fe	13019-1340A(cyl)
					Oil	110.0	4.0	4.35	E-BC16	SR	GN	GN	
J08B-TI			SDH20098ZY	6	1st	110.9	2.948	3.9	BF-K1	SR	GN	GN	13011-3860A
					2nd	110.9	2.0	4.6	TUC	HB	Cr	Fe	13011-3930A
					Oil	110.9	4.0	4.45	E-BC16	SR	GN	GN	13019-1360A(cyl)
A09C	8,866	Truck Profia FH FR FS FN GN FQ	SDH20107ZZ	6	1st	112.0	2.948	4.1	BF-K1	SR	GN	GN	13011-E0060
					2nd	112.0	2.0	4.3	T1	SR	GN	GN	
					Oil	112.0	4.0	4.35	E-BC16	SR	GN	GN	
J05E	5,123	Truck Ranger hybrid	SDH20108ZY	4	1st	112.0	2.5	4.1	BF	SR	GN	GN	13011-E0350
					2nd	112.0	2.0	4.3	T1	SR	GN	GN	13019-1120A(cyl)
					Oil	112.0	4.0	4.35	E-BC16	SR	GN	GN	
J08E	7,684	Ranger	SDH20102ZY	6	1st	112.0	2.5	4.1	BF	SR	GN	GN	13011-4040A
					2nd	112.0	2.0	4.3	T1	SR	GN	GN	13019-1120A(cyl)
					Oil	112.0	4.0	4.35	E-BC16	SR	GN	GN	13011-E0650
J07E	6,403	Ranger Melpha	SDH20104ZY	5	1st	112.0	2.5	4.1	BF	SR	GN	GN	13011-4050A
					2nd	112.0	2.0	4.3	T1	SR	GN	GN	13019-1120A(cyl)
					Oil	112.0	4.0	4.35	E-BC16	SR	GN	GN	
			SDH20109ZZ	5	1st	112.0	2.948	4.1	BF-K1	SR	GN	GN	13011-E0370
					2nd	112.0	2.0	4.3	T1	SR	GN	GN	
					Oil	112.0	4.0	4.35	E-BC16	SR	GN	GN	
J05C	5,307	Ranger Dutro Melpha Liesse	SDH20081ZX	4	1st	114.0	3.0	4.1	BF	SR	GN	GN	13011-3391B
					2nd	114.0	2.0	4.3	T1-IB	SR	GN	GN	13019-1380A(cyl)
					Oil	114.0	4.0	4.35	E-BC16	SR	GN	GN	
			SDH20086ZY	4	1st	114.0	2.5	4.3	BF	SR	GN	GN	13011-3880A
					2nd	114.0	2.0	4.3	T1	SR	GN	GN	13011-3940A
					Oil	114.0	4.0	4.35	E-BC16	SR	GN	GN	13019-1010B(cyl) 13011-3221A 13019-1370A(cyl) S1304-E0210

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
J07C	6,634	Ranger	SDH20087ZY	5	1st	114.0	2.5	4.3	BF	SR	GN	GN	13011-3660A
					2nd	114.0	2.0	4.3	T1	SR	GN	GN	13011-3900A
					Oil	114.0	4.0	4.35	E-BC16	SR	GN	GN	13019-1010B(cyl)
			SDH20082ZX	5	1st	114.0	3.0	4.1	BF	SR	GN	GN	13011-3371B
					2nd	114.0	2.0	4.3	T1	SR	GN	GN	13011-3771A
					Oil	114.0	4.0	4.35	E-BC16	SR	GN	GN	13019-1380A(cyl)
J08C	7,961	Selega Ranger Rainbow	SDH20067ZX	6	1st	114.0	3.0	4.1	BF	SR	GN	GN	13011-2960A
					2nd	114.0	2.0	4.3	T1	SR	GN	GN	13011-2961A
					Oil	114.0	4.0	4.35	E-BC16	SR	GN	GN	13011-2962A 13019-1380A(cyl)
			SDH20088ZY	6	1st	114.0	2.5	4.3	BF	SR	GN	GN	13011-3570A
					2nd	114.0	2.0	4.3	T1	SR	GN	GN	13011-3820A
					Oil	114.0	4.0	4.35	E-BC16	SR	GN	GN	13011-3890B 13019-1010B(cyl)
			SWH20090ZX	6	1st	114.0	3.0	4.1	BF	SR	GN	GN	13011-3060A
					2nd	114.0	2.0	4.3	T1	SR	GN	GN	13019-1390A(cyl)
					Oil	114.0	4.0	3.40	NIFF-S	SR	GN	GN	
EL100	7,862	Truck Ranger 7E FG185 LB760	SDH20029ZX	6	1st	116.0	3.0	4.25	BF	SR	Cr	Fe	13011-1700
					2nd	116.0	2.5	4.8	T1-IC	CR	Fe	Fe	13011-1700B
					3rd	116.0	2.5	4.8	BI-TUC	CR	Cr	Fe	13011-1710
					Oil	116.0	5.0	4.95	E-BC16	SR	GN	GN	
P10C-TI	9,880		SDH20083ZZ	6	1st	117.8	3.306	4.1	BF-K1	SR	GN	GN	13011-3420A
					2nd	117.8	2.306	4.8	T1-K1-IC	HB	Cr	Fe	13019-1450A(cyl)
					3rd	117.8	2.0	4.8	BI-TUC	HB	Cr	Fe	
					Oil	117.8	4.0	4.65	E-BC16	SR	Cr	Fe	
DK10 DK20	10,178	Truck KA300 KF700 KF720 TC30 TC320 Bus RC10-P RC100 RC120 RC120P RC140P RC300 RC300-P RC320 Tractor HE100 HF300 HF301 HH700 HH720	SDH20012ZX	6	1st	120.0	3.5	4.1	BF	SR	GN	GN	13011-1200
					2nd	120.0	3.5	4.6	T1-IC	CR	Fe	Fe	13011-1270
					3rd	120.0	3.5	4.6	BI-TUC	CR	Fe	Fe	13011-1280
					Oil 1	120.0	5.0	4.5	E-BC3	CR	Cr	Fe	13011-1280A
					Oil 2	120.0	5.0	4.6	BC1	HB	Cr	Fe	13011-1290
													3311-1205-05

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Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
EB300	9,838	Dump Truck KB112D	SDH20017ZZ	6	1st	120.0	3.5	4.6	BF	HB	Cr	Fe	12011-1330
					2nd	120.0	3.5	4.6	T1-IC	CR	Fe	Fe	13011-1720
					3rd	120.0	3.5	4.6	Bl-TUC	CR	Fe	Fe	12011-1730A
					Oil	120.0	6.0	5.5	E-BC3	CR	Cr	Fe	3334-1205-09
EB400	9,838	RE	SDH20027ZY	6	1st	120.0	3.306	4.8	BF-K1	HB	Cr	Fe	13011-1630
					2nd	120.0	3.0	4.6	T1-IC	CR	Fe	Fe	13011-1640
					3rd	120.0	3.0	4.6	Bl-TUC	CR	Cr	Fe	13011-1640A
					Oil	120.0	6.0	5.5	E-BC3	CR	Cr	Fe	13011-2330B 13019-1470A(cyl) 13019-1500A(cyl)
EP100 P09C-TA	8,821	Super Dolphin FN288 11.5ton	SDH20034ZX	6	1st	120.0	3.306	4.45	BF-K1	SR	Cr	Fe	13011-1952
					2nd	120.0	2.806	4.8	T1-K1-IC	CR	Cr	Fe	13019-1480A(cyl)
					3rd	120.0	2.5	4.8	Bl-TUC	CR	Cr	Fe	
					Oil	120.0	5.0	4.95	E-BC16	SR	GN	GN	
			SDH20050ZZ	6	1st	120.0	3.306	4.45	BF-K1	SR	Cr	Fe	13011-2370A
					2nd	120.0	3.0	4.6	T1-IC	CR	Cr	Fe	13011-2760A
					3rd	120.0	2.5	4.8	Bl-TUC	CR	Cr	Fe	13011-2760B
					Oil	120.0	5.0	4.95	E-BC16	SR	GN	GN	13019-1490A(cyl) 13011-E0540 S1304-E0480(cyl)
P11C P11B-TI	10,520	Blue Ribbon Super Dolphin Profia	SDH20073ZZ	6	1st	122.0	3.306	4.1	BF-K1	SR	GN	GN	13011-3110A
					2nd	122.0	2.306	4.8	T1-K1-IC	HB	Cr	Fe	13011-3111A
					3rd	122.0	2.0	4.8	Bl-TUC	HB	Cr	Fe	13011-3112A
					Oil	122.0	4.0	4.65	E-BC16	SR	Cr	Fe	13011-3114A
													13011-3114B
													13011-3114C
													13011-3800A
													13011-3830A
													13011-3870A
													13019-1030B(cyl)
													13019-1520A(cyl)
													13011-3810A
													13011-3811A
													13019-1510A
EM100	9,419	Super Dolphin FH228 8ton	SDH20033ZX	6	1st	124.0	2.806	4.45	BF-K1	SR	Cr	Fe	13011-1921A
					2nd	124.0	2.5	5.0	T1-IC	CR	Cr	Fe	13019-1540A(cyl)
					3rd	124.0	3.0	5.0	Bl-TUC	CR	Cr	Fe	
					Oil	124.0	5.0	4.95	E-BC16	SR	GN	GN	
M10-U	9,880	Bus Blue Ribbon HU	SDH20049ZY	6	1st	127.0	3.306	5.2	BF-K1	HB	Cr	Fe	13011-2250A
					2nd	127.0	3.0	5.0	T1-IC	HB	Cr	Fe	13011-2860A
					3rd	127.0	3.0	5.2	Bl-TUC	CR	Cr	Fe	13019-1550A(cyl)
					Oil	127.0	5.0	5.0	E-BC3	CR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
ED100	11,581	Truck (Export spec) HE35 HH130	SDH20020ZZ	6	1st	128.0	3.5	4.8	BF	HB	Cr	Fe	13011-1470
					2nd	128.0	3.5	4.8	T1-IC	HB	Cr	Fe	13011-1480
					3rd	128.0	3.5	4.8	BI-TUC	CR	Fe	Fe	13011-1660
					Oil	128.0	6.0	5.5	E-BC3	CR	Cr	Fe	13011-1670 13011-1670A
			SDH20048ZZ	6	1st	128.0	4.0	4.8	BF	HB	Cr	Fe	13011-2230A
					2nd	128.0	4.0	4.8	T1-IC	HB	Cr	Fe	
					3rd	128.0	3.5	4.8	BI-TUC	CR	Fe	Fe	
					Oil	128.0	6.0	5.5	E-BC3	CR	Cr	Fe	
ER200	11,581	RC	SDH20045ZZ	6	1st	128.0	3.5	4.8	BF	HB	Cr	Fe	13011-1770
					2nd	128.0	3.0	4.8	T1-IC	CR	Fe	Fe	13011-1770B
					3rd	128.0	3.0	4.8	BI-TUC	CR	Cr	Fe	
					Oil	128.0	6.0	5.5	E-BC3	CR	Cr	Fe	
EF100 EF100T	13,804	Truck HE345 TC701 Bus HE345 TC701	SDH20018ZZ	V8	1st	130.0	3.306	5.2	BF-K1	HB	Cr	Fe	13011-1180
					2nd	130.0	3.5	5.4	T1-IC	CR	Fe	Fe	13011-1180A
					3rd	130.0	3.5	5.4	BI-TUC	CR	Fe	Fe	13011-1570
					Oil	130.0	6.0	5.5	E-BC3	CR	Cr	Fe	13011-1570A 13011-1580 13011-1590 13011-1590A 3391-1205-04 13019-1460A(cyl)
EF300 EF350	14,332	Truck TC702D KF703D ZM704D	SDH20024ZZ	V8	1st	132.0	3.306	5.2	BF-K1	HB	Cr	Fe	13011-1100
					2nd	132.0	3.5	5.4	T1-IC	CR	Fe	Fe	13011-1101
					3rd	132.0	3.5	5.4	BI-TUC	CR	Cr	Fe	13011-1091A
					Oil	132.0	6.0	5.5	E-BC3	CR	Cr	Fe	13011-1091B 13019-1560A(cyl)
EG100 EF550	14,886 16,260	Truck KB500D KS320 ZM102 TC541 Bus RV530P 550P Tractor WG300 HF350	SDH20019ZX	V8	1st	135.0	3.306	4.7	BF-K1	SR	GN	GN	13011-1131
					2nd	135.0	3.5	5.4	T1-IC	CR	Fe	Fe	13011-1131B
					3rd	135.0	3.5	5.4	BI-TUC	CR	Cr	Fe	13011-1460
					Oil	135.0	6.0	5.5	E-BC3	CR	Cr	Fe	

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- TOYOTA
- DAEWOO
- HYUNDAI
- KIA
- CHINA
- ASIA
- CHRYSLER
- FORD
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Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
EF550	16,260	Super Dolphin	SDH20039ZX	V8	1st	135.0	2.806	5.4	BF-K1	HB	Cr	Fe	13011-2010A 13019-1590A(cyl)
					2nd	135.0	3.5	5.4	T1-IC	CR	Fe	Fe	
					3rd	135.0	3.0	5.4	Bl-TUC	CR	Cr	Fe	
					Oil	135.0	5.0	4.95	E-BC16	SR	Cr	Fe	
			SDH20058ZX	V8	1st	135.0	3.306	4.7	BF-K1	SR	GN	GN	13011-2700
					2nd	135.0	3.5	5.4	T1-IC	CR	Fe	Fe	
					3rd	135.0	3.5	5.4	Bl-TUC	CR	Cr	Fe	
					Oil	135.0	5.0	4.95	E-BC16	SR	Cr	Fe	
K13C	12,882	Truck Ranger Super Profia	SDH20092ZY	6	1st	135.0	3.306	4.7	BF-K1	SR	GN	GN	13011-3790A
					2nd	135.0	3.5	5.4	T1-IC	CR	Fe	Fe	
					3rd	135.0	3.5	5.4	Bl-TUC	CR	Cr	Fe	
					Oil	135.0	5.0	4.95	E-BC16	SR	Cr	Fe	
F17D	17,238	FS FR FN FW SH RU	SDH20095ZY	V8	1st	137.0	3.306	4.7	BF-K1	SR	GN	GN	13011-3770A 13019-1090B(cyl)
					2nd	137.0	3.5	5.4	T1-IC	CR	Fe	Fe	
					3rd	137.0	3.5	5.4	Bl-TUC	CR	Cr	Fe	
					Oil	137.0	4.0	4.15	E-BC16	SR	GN	GN	
EK100 EK200 EK130T	13,267	Truck TC303D KF301D ZM103D KB501D KS321	SDH20023ZX	6	1st	137.0	3.306	4.7	BF-K1	SR	GN	GN	13011-1010 13011-1011 13011-1021 13011-1021B 13011-2210 13011-3750B 13019-1610A(cyl)
					2nd	137.0	3.5	5.4	T1-IC	CR	Fe	Fe	
					3rd	137.0	3.5	5.4	Bl-TUC	CR	Cr	Fe	
					Oil	137.0	6.0	5.5	E-BC3	CR	Cr	Fe	
EF700 EF750	15,920 16,745	Tractor HE HH TC	SDH20025ZX	V8	1st	137.0	3.306	4.7	BF-K1	SR	GN	GN	13011-1111 13011-1112 13011-1121 13011-1121B 13011-1122 13011-2170B 13011-2180 13019-1610A(cyl)
					2nd	137.0	3.5	5.4	T1-IC	CR	Fe	Fe	
					3rd	137.0	3.5	5.4	Bl-TUC	CR	Cr	Fe	
					Oil	137.0	6.0	5.5	E-BC3	CR	Cr	Fe	
EV700	19,900	Truck SH HE526 SS TC562	SDH20028ZZ	V10	1st	137.0	3.306	5.4	BF-K1	HB	Cr	Fe	13011-1741 13011-1741B 13011-1751 13011-2200A 13019-1610A(cyl)
					2nd	137.0	3.5	5.4	T1-IC	CR	Fe	Fe	
					3rd	137.0	3.5	5.4	Bl-TUC	CR	Cr	Fe	
					Oil	137.0	6.0	5.5	E-BC3	CR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
EF700T EF750T	15,920	Bus	SDH20031ZX	V8	1st	137.0	3.306	4.7	BF-K1	SR	GN	GN	13011-1890
	16,745	RU60/63			2nd	137.0	3.306	5.4	T1-K1-IC	CR	Cr	Fe	13011-1891
					3rd	137.0	3.5	5.4	BI-TUC	CR	Cr	Fe	13011-3100B
					Oil	137.0	6.0	5.5	E-BC3	CR	Cr	Fe	13019-1640A(cyl) 13019-1680A(cyl)
EF750	16,745	FN	SDH20040ZZ	V8	1st	137.0	2.806	5.4	BF-K1	HB	Cr	Fe	13011-1990A
		SS			2nd	137.0	3.5	5.4	T1-IC	CR	Fe	Fe	13019-1670A(cyl)
		SH			3rd	137.0	3.0	5.4	BI-TUC	CR	Cr	Fe	
		FS			Oil	137.0	5.0	5.0	E-BC3	CR	Cr	Fe	
F17D EF750	17,238	Selega	SDH20059ZX	V8	1st	137.0	3.306	4.7	BF-K1	SR	GN	GN	13011-2710A
	16,745	Super Dolphin			2nd	137.0	3.5	5.4	T1-IC	HB	Cr	Fe	
					3rd	137.0	3.5	5.4	BI-TUC	CR	Cr	Fe	
					Oil	137.0	5.0	4.95	E-BC16	SR	Cr	Fe	
K13D	13,267	Super Dolphin	SDH20061ZX	6	1st	137.0	3.306	4.7	BF-K1	SR	GN	GN	13011-2770
					2nd	137.0	3.5	5.4	T1-IC	HB	Cr	Fe	13011-2771B
					3rd	137.0	3.5	5.4	BI-TUC	CR	Cr	Fe	13019-1620A(cyl)
					Oil	137.0	5.0	4.95	E-BC16	SR	Cr	Fe	
F17D-TI	17,238	Selega	SDH20065ZX	V8	1st	137.0	3.306	5.4	BF-K1	HB	Cr	Fe	13011-2910A
		Super Dolphin			2nd	137.0	3.306	4.7	T1-K1-IB	SR	GN	GN	13019-1660A(cyl)
					3rd	137.0	3.5	5.4	BI-TUC	CR	Cr	Fe	
					Oil	137.0	5.0	4.95	E-BC16	SR	Cr	Fe	
E13C	12,913	Profia	SDH20100ZY	6	1st	137.0	3.306	4.1	BF-K1	SR	GN	GN	13011-4010A
					2nd	137.0	2.806	4.9	T1-K1-IB	SR	GN	GN	
					3rd	137.0	2.5	4.5	T1	SR	GN	GN	
					Oil	137.0	4.0	4.4	E-BC16	SR	GN	GN	
V22C	21,548	Super Dolphin	SDH20052ZZ	V10	1st	139.0	3.306	5.4	BF-K1	HB	Cr	Fe	13011-2470A
					2nd	139.0	3.5	5.5	T1-IC	CR	Fe	Fe	13011-2471B
					3rd	139.0	3.5	5.5	BI-TUC	CR	Cr	Fe	13011-2472A
					Oil	139.0	6.0	5.5	E-BC3	CR	Cr	Fe	13019-1690A(cyl)
F17C F17E	17,238	Super Dolphin	SDH20053ZX	V8	1st	139.0	3.306	4.7	BF-K1	SR	GN	GN	13011-2810A
		Selega			2nd	139.0	3.5	5.5	T1-IC	CR	Fe	Fe	13011-3150A
					3rd	139.0	3.5	5.5	BI-TUC	CR	Cr	Fe	13019-1700A
					Oil	139.0	5.0	4.95	E-BC16	SR	GN	GN	
V22D	21,548	Super Dolphin	SDH20072ZY	V10	1st	139.0	3.306	5.4	BF-K1	HB	Cr	Fe	13011-3170A
					2nd	139.0	3.5	5.5	T1-IC	HB	Cr	Fe	13011-3180
					3rd	139.0	3.5	5.5	BI-TUC	CR	Cr	Fe	13019-1700A(cyl)
					Oil	139.0	5.0	4.95	E-BC16	SR	GN	GN	

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- FORD
- G M
- EUROPE

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
F20C	19,688	Ranger Truck Super Dolphin Profia FS	SDH20062ZX	V8	1st	146.0	3.306	4.7	BF-K1	SR	GN	GN	13011-2792A
					2nd	146.0	3.5	4.9	T1-IB	SR	GN	GN	13011-3250A
					3rd	146.0	3.5	5.7	B1-TUC	CR	Cr	Fe	13019-1710A(cyl)
					Oil	146.0	5.0	4.95	E-BC16	SR	GN	GN	
			SDH20077ZX	V8	1st	146.0	3.306	4.7	BF-K1	SR	GN	GN	13011-3320A
					2nd	146.0	3.0	5.1	T1	SR	GN	GN	13019-1720A(cyl)
					3rd	146.0	3.0	5.1	T1	SR	GN	GN	
					Oil	146.0	4.0	4.4	E-BC16	SR	GN	GN	
V26C	25,977	Super Dolphin	SDH20080ZX	V10	1st	150.0	3.306	5.5	BF-K1	SR	GN	GN	13011-3450A
					2nd	150.0	3.0	5.1	T1-IB	SR	GN	GN	13019-1730A(cyl)
					3rd	150.0	3.0	5.8	B1-TUC	HB	Cr	Fe	
					Oil	150.0	4.0	4.65	E-BC16	SR	Cr	Fe	
F21C	20,781	Selega Super Dolphin	SDH20076ZX	V8	1st	150.0	3.306	5.5	BF-K1	SR	GN	GN	13011-3310A
					2nd	150.0	3.0	5.1	T1-IB	SR	GN	GN	13019-1730A(cyl)
					3rd	150.0	3.0	5.8	B1-TUC	HB	Cr	Fe	
					Oil	150.0	4.0	4.65	E-BC16	SR	Cr	Fe	

● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
E07Z	658	Z Z turbo Life	SWH30495ZZ	3	1st	66.0	1.2	2.25	BF	SR	Cr	Fe	13011-PDF-004
					2nd	66.0	1.2	2.85	T1	CR	Fe	Fe	
					Oil	66.0	2.8	2.5	NIFF-S	SR	Cr	Fe	
EB1	1,169	Civic 1200	SWH30107ZZ	4	1st	70.0	1.5	2.8	T1	CR	Cr	Fe	13011-634-004
					2nd	70.0	1.5	2.8	T1	CR	Fe	Fe	13011-634-305
					Oil	70.0	2.8	2.75	NIFF-S	SR	Cr	Fe	13011-643-015
RGB(T/C)			YWH30442ZY (1cyl)	1	1st	71.0	1.2	2.45	BF-IB	SR	Cr	Fe	13011-RGB-0060(cyl)
					2nd	71.0	1.2	2.8	T1	CR	Fe	Fe	
					Oil	71.0	2.5	2.5	NIFF-H	SR	Cr	Fe	
P07A	658	Life Turbo Life NA	SWH30473ZZ	3	1st	71.0	1.0	2.3	BF-IB	SR	GN	GN	13011-RS9-006
					2nd	71.0	1.2	2.8	T1	CR	Fe	Fe	13011-RS8-006
					Oil	71.0	2.0	2.2	NIFF-H	SR	GN	GN	
EB2	1,237	Civic 1200	SWH30184ZY	4	1st	72.0	1.5	2.85	BF	SR	Cr	Fe	13011-642-003
					2nd	72.0	1.5	3.4	T1	CR	Fe	Fe	13011-642-004
					Oil	72.0	2.8	3.0	NIFF-S	SR	Cr	Fe	13011-642-305
E12 EJ1	1,335	Civic 1300 Ballade	SWH30219ZZ	4	1st	72.0	1.0	2.85	BF	SR	Cr	Fe	13011-PA5-034
					2nd	72.0	1.2	3.2	T1	CR	Fe	Fe	13011-PA5-014
					Oil	72.0	2.8	3.0	NIFF-S	SR	Cr	Fe	13011-PA5-024
EN EJ	1,335	Ballade Civic 1300 Civic Van SV	SWH30162ZZ	4	1st	72.0	1.5	3.1	BF	HB	Cr	Fe	13011-PA0-004
					2nd	72.0	1.5	3.4	T1	CR	Fe	Fe	13011-PA1-004
					Oil	72.0	4.0	3.05	NIFF-S	SR	Cr	Fe	13011-PA5-004
													13011-673-000 13011-679-621 13011-695-004
L12B	1,198	Jazz Brio Brio Amaze	SWH30465ZZ	4	1st	73.0	1.0	2.3	BF-IB	SR	GN	GN	13011-RB0-006(cyl)
					2nd	73.0	1.0	2.3	TUC	SR	Fe	Fe	13011-RW0-006
					Oil	73.0	2.0	2.2	NIFF-H	SR	GN	GN	13011-RB0-004
L13A	1,339	Fit 1.3L											13011-RB1-004
L15A7 LEA L15B	1,497	Fit 1.5L Civic Hybrid											13011-5R0-013 13011-5R0-014
LDA-MF3	1,339	Civic Hybrid	SWH30474ZZ	4	1st	73.0	1.0	2.25	BF-IB	SR	Cr	Fe	13011-PWA-G01
					2nd	73.0	1.2	3.0	TUC	CR	Fe	Fe	13011-REA-Z01
					Oil	73.0	2.0	2.2	NIFF-H	SR	Cr	Fe	
L15B	1,497	Fit Vezel Shuttle Grace Freed	SWH33008ZZ	4	1st	73.0	1.2	2.3	BF	SR	GN	GN	13011-59B-014
					2nd	73.0	1.0	2.3	TUC	SR	Fe	Fe	
					Oil	73.0	2.0	2.2	NIFF-H	SR	GN	GN	

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ASIA
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Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
EC	1,488	Civic 1500SE Civic Van VB	SWH30091ZZ	4	1st	74.0	1.5	3.4	BF	CR	Cr	Fe	13011-657-003
					2nd	74.0	1.5	3.2	T1	CR	Fe	Fe	13011-657-315
					Oil	74.0	2.8	2.8	NIFF-S	SR	GN	GN	13011-657-604
ED3	1,488	Civic 1500	SWH30114ZZ	4	1st	74.0	1.5	3.4	BF	CR	Cr	Fe	13011-657-670
ED4	1,488	Ballade 1500 SG,SH,ST			2nd	74.0	1.5	3.2	T1	CR	Fe	Fe	13011-657-671
					Oil	74.0	4.0	3.05	NIFF-S	SR	Cr	Fe	13011-657-675 13011-671-004 13011-PA6-004
EM1	1,599	Accord 1600SJ											
D15A3	1,488	Civic CVCC Hatch Back											
D13A2 EV1	1,342	CRX Civic	SWH30252ZZ	4	1st	74.0	1.2	2.8	BF	SR	Cr	Fe	13011-PE0-662
					Oil	74.0	2.8	2.8	NIFF-H	SR	GN	GN	
D15A2	1,488	Civic CVCC Civic 1500 Ballade 1500	SWH30253ZZ	4	1st	74.0	1.2	2.8	BF	SR	Cr	Fe	13011-PA6-014
					2nd	74.0	1.2	3.2	T1	CR	Fe	Fe	13011-PE1-004
					Oil	74.0	2.8	2.8	NIFF-H	SR	GN	GN	13011-PE7-014
EW	1,488	Civic Ballade	SWH30326ZZ	4	1st	74.0	1.5	2.9	BF	SR	GN	GN	13011-PE3-004
EV	1,342				2nd	74.0	1.5	3.2	T1	CR	Cr	Fe	
					Oil	74.0	4.0	3.05	NIFF-S	SR	Cr	Fe	
D15A	1,488	Civic 1500 CRX	SWH30374ZZ	4	1st	74.0	1.0	2.7	BF	SR	Cr	Fe	13011-PE0-004
					2nd	74.0	1.2	3.2	T1	CR	Fe	Fe	
					Oil	74.0	2.8	2.8	NIFF-H	SR	GN	GN	
D15B7 D16A1 D16A8	1,493	Civic 1500	SWH30362ZZ	4	1st	75.0	1.2	2.7	BF	SR	GN	GN	13011-PM6-G02
	1,590	Civic 1600			2nd	75.0	1.5	3.2	TUC	CR	Cr	Fe	
					Oil	75.0	2.8	2.55	NIFF-S	SR	GN	GN	
D15B6	1,493	CRX	SWH30363ZZ	4	1st	75.0	1.0	2.65	BF	SR	Cr	Fe	13011-PM8-A02
					2nd	75.0	1.2	3.2	T1	CR	Fe	Fe	
					Oil	75.0	2.8	3.0	NIFF-S	SR	Cr	Fe	
D15B1 D15B2 D15B8	1,493	Civic 1500 Civic 1600 CRX	SWH30365ZZ	4	1st	75.0	1.2	2.7	BF	SR	Cr	Fe	13011-PM5-A02
					2nd	75.0	1.5	3.2	T1	CR	Fe	Fe	13011-PJ1-752
					Oil	75.0	2.8	2.8	NIFF-S	SR	Cr	Fe	
D16A1 D16A8	1,590	Integra Partner											
SH4 PM0	1,488	Civic 1500 CRX Domani	SWH30382ZZ	4	1st	75.0	1.2	2.7	BF	SR	GN	GN	13011-PM0-B02
					2nd	75.0	1.5	3.2	TUC	CR	Cr	Fe	13011-PM0-B03
					Oil	75.0	4.0	3.05	NIFF-S	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
D15Z1 D16Y5 D16Y7 D16Y8	1,493	Civic 1500	SWH30423ZZ	4	1st	75.0	1.0	2.65	BF-IB	SR	Cr	Fe	13011-P07-004
	1,590	Civic 1600			2nd	75.0	1.2	2.8	TUC	CR	Fe	Fe	13011-P08-004
					Oil	75.0	2.8	2.55	NIFF-S	SR	Cr	Fe	
D17A1 D17A7 D17A8	1,668	Civic Stream	SWH30440ZZ	4	1st	75.0	1.0	2.65	BF-IB	SR	Cr	Fe	13011-PLM-A00
					2nd	75.0	1.2	3.0	T1	CR	Fe	Fe	13011-PLR-A00
					Oil	75.0	2.0	2.5	NIFF-H	SR	GN	GN	
D15B7 P04	1,493	Partner Domani	SWH30445ZZ	4	1st	75.0	1.2	2.7	BF	SR	Cr	Fe	13011-P04-G02
					2nd	75.0	1.5	3.3	T1	CR	Fe	Fe	
					Oil	75.0	2.8	2.8	NIFF-S	SR	Cr	Fe	
EK1	1,751	Accord Prelude Vigor	SWH30158ZZ	4	1st	77.0	1.5	2.85	BF	SR	Cr	Fe	13011-676-602
					2nd	77.0	1.5	3.3	TUC	CR	Fe	Fe	13011-676-604
					Oil	77.0	4.0	3.05	NIFF-S	SR	Cr	Fe	13011-676-642 13011-689-003 13011-689-015 13011-689-005
EP	1,601												
A18A1	1,829	Accord Prelude	SWH30251ZZ	4	1st	80.0	1.5	3.05	BF	SR	Cr	Fe	13011-PC6-004
					2nd	80.0	1.5	3.4	TUC	CR	Fe	Fe	13011-PC6-013
					Oil	80.0	4.0	3.3	NIFF-S	SR	Cr	Fe	13011-PC7-023 13011-PD6-003 13011-PH1-003 13011-PH2-003
EY ET2	1,598												
A18A	1,829	Accord Prelude	SWH30409ZZ	4	1st	80.0	1.2	3.05	BF-IB	SR	Cr	Fe	13011-PH2-902
					2nd	80.0	1.2	3.3	T1	CR	Fe	Fe	13011-PH2-901
					Oil	80.0	2.8	2.85	NIFF-S	SR	Cr	Fe	13011-PD4-003
B16A1 B17A1	1,595	Integra Civic	SWH30373ZZ	4	1st	81.0	1.0	3.1	BF-IB	SR	Cr	Fe	13011-PR3-003
	1,678				2nd	81.0	1.2	3.3	TUC	CR	Fe	Fe	13011-PR3-004
					Oil	81.0	2.8	2.7	NIFF-S	SR	Cr	Fe	13011-PR4-A02
B18A1 B18B1	1,835												
B18A	1,835	Prelude Accord	SWH30375ZZ	4	1st	81.0	1.2	3.1	BF	SR	GN	GN	13011-PK1-751
					2nd	81.0	1.5	3.2	TUC	HB	Fe	Fe	13011-PK1-752
					Oil	81.0	2.8	2.8	NIFF-S	SR	GN	GN	13011-PH3-004 13011-PH3-901 13011-PH5-003 13011-PJ5-601 13011-PK1-003
B20A3	1,958												

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Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
R18A1	1,799	Cross Road Civic Stream	SWH30484ZY	4	1st	81.0	1.2	2.5	BF-IB	SR	GN	GN	13011-RNB-A02
					2nd	81.0	1.2	3.3	TUC	CR	Fe	Fe	13011-RNA-A02
					Oil	81.0	2.0	2.5	NIFF-H	SR	GN	GN	13011-RZP-004
R20A	1,997	Accord Step Wagon Stream CR-V											
C20A	1,996	Legend 2000	SWH30449ZZ	V6	1st	82.0	1.2	3.05	BF-IB	SR	Cr	Fe	13011-PH6-003
					2nd	82.0	1.2	3.3	T1	CR	Fe	Fe	
					Oil	82.0	2.8	2.85	NIFF-S	SR	Cr	Fe	
G20A	1,996	Inspire Rafaga Vigor	SWH33001ZZ	5	1st	82.0	1.2	3.05	BF-IB	SR	Cr	Fe	13011-PV0-003
					2nd	82.0	1.2	3.3	T1	CR	Fe	Fe	13011-PV0-004
					Oil	82.0	2.8	2.85	NIFF-S	SR	Cr	Fe	13011-PV0-013 13011-PV0-014
A20A BT	1,995	Accord 2000 Vigor Prelude	SWH30366ZZ	4	1st	82.7	1.5	3.1	BF	SR	GN	GN	13011-PH4-751
					2nd	82.7	1.5	3.2	T1	CR	Cr	Fe	
					Oil	82.7	4.0	3.25	NIFF-S	SR	GN	GN	
			SWH30386ZZ	4	1st	82.7	1.5	3.1	BF	SR	Cr	Fe	13011-PH4-602
					2nd	82.7	1.5	3.5	TUC	CR	Fe	Fe	
					Oil	82.7	4.0	3.2	NIFF-S	SR	Cr	Fe	
B21A1	2,056	Prelude	SWH30448ZZ	4	1st	83.0	1.2	3.05	BF-IB	SR	Cr	Fe	13011-PK3-A04
					2nd	83.0	1.2	3.1	T1	CR	Cr	Fe	
					Oil	83.0	2.8	2.8	NIFF-S	SR	GN	GN	
C25A1	2,494	Legend 2500	SWH30369ZZ	V6	1st	84.0	1.2	3.1	BF-IB	SR	Cr	Fe	13011-PH7-003
					2nd	84.0	1.2	3.6	T1-IB	CR	Fe	Fe	
					Oil	84.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
B20B4 B20Z2	1,972	CR-V Orthia	SWH30437ZZ	4	1st	84.0	1.2	2.9	BF-IB	SR	GN	GN	13011-P3F-003
					2nd	84.0	1.2	3.4	T1	CR	Fe	Fe	
					Oil	84.0	2.8	2.6	NIFF-S	SR	Cr	Fe	
F22A1 F22A4 F22A6 F22B1 F22B2 F22B6	2,156	Accord Prelude Odyssey	SWH30383ZY	4	1st	85.0	1.2	3.05	BF	SR	Cr	Fe	13011-PT0-B03
					2nd	85.0	1.2	3.4	T1	CR	Fe	Fe	13011-P0A-004
					Oil	85.0	2.8	2.85	NIFF-S	SR	Cr	Fe	13011-PT2-004
F20A	1,997	Ascot Accord	SDH30444ZZ	4	1st	85.0	1.2	3.05	BF	SR	Cr	Fe	13011-PT1-M02
					2nd	85.0	1.2	3.4	T1	CR	Cr	Fe	13011-PT1-506
					Oil	85.0	3.0	3.25	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
F20A F22A	2,156	Accord Prelude Odyssey	SWH30476ZZ	4	1st	85.0	1.2	3.05	BF	SR	Cr	Fe	13011-PT4-X01
					2nd	85.0	1.2	3.4	T1	CR	Fe	Fe	13011-PT4-X02
					Oil	85.0	2.8	2.55	NIFF-S	SR	GN	GN	13011-PT4-X03 13011-PT4-X04 13011-PT0-B01 13011-PT0-B02
F23A1 F23A4 F23A5 F23A7	2,254	Avancier Odyssey	SWH30443ZZ	4	1st	86.0	1.2	2.9	BF	SR	Cr	Fe	13011-PEA-004
					2nd	86.0	1.2	3.4	T1	CR	Fe	Fe	13011-PAA-Y01
					Oil	86.0	2.8	2.85	NIFF-S	SR	Cr	Fe	
J30A1 J30A4 J30A5 JNA1	2,997	Accord	SWH30432ZZ	V6	1st	86.0	1.2	2.9	BF	SR	Cr	Fe	13011-P8A-A01
					2nd	86.0	1.2	3.4	T1	CR	Fe	Fe	
					Oil	86.0	2.8	2.85	NIFF-S	SR	Cr	Fe	
K20A1 K20A2 K20A3 K20Z1 K20Z2 K20Z3	1,998	Civic	SWH30454ZZ	4	1st	86.0	1.2	2.9	BF	SR	Cr	Fe	13011-PNE-G02
					2nd	86.0	1.2	3.4	T1	CR	Fe	Fe	13011-PNF-G01
					Oil	86.0	2.0	2.5	NIFF-H	SR	GN	GN	
K20C K20C1 K20C4	1,996	Avancier Accord Acura RDX	SWH33007ZZ (TCC-Q-0743)	4	1st	86.0	1.5	2.7	BF-IB	SR	GN	GN	13011-6B2-A01
					2nd	86.0	1.0	2.7	TUC	SR	Cr	Fe	
					Oil	86.0	2.0	2.25	NIFF-H	SR	GN	GN	
C27A1 C27A4	2,675	Accord Legend	SWH30370ZZ	V6	1st	87.0	1.2	3.1	BF-IB	SR	Cr	Fe	13011-PL2-003
					2nd	87.0	1.2	3.5	T1-IB	CR	Fe	Fe	13011-P0G-A01
					Oil	87.0	4.0	3.15	NIFF-S	SR	Cr	Fe	
H22A1 H22A4	2,157	Accord Prelude	SWH30433ZZ	4	1st	87.0	1.2	3.1	BF-IB	SR	GN	GN	13011-P5M-003
					2nd	87.0	1.2	3.2	TUC	CR	Cr	Fe	13011-PI3-004
					Oil	87.0	2.8	2.55	NIFF-S	SR	GN	GN	
K24A2	2,354	TSX Accord	SWH30435ZZ	4	1st	87.0	1.2	3.1	BF-IB	SR	GN	GN	13011-RBB-006
					2nd	87.0	1.2	3.4	TUC	HB	Cr	Fe	
					Oil	87.0	2.5	2.45	NIFF-H	SR	GN	GN	
K24A3 K24A4 K24A8 K24Z1 K24A K24W	2,354	CR-V Odyssey	SWH30466ZZ (TCC-R-0836)	4	1st	87.0	1.2	3.1	BF-IB	SR	GN	GN	13011-RAA-A01
					2nd	87.0	1.2	3.1	TUC	SR	Fe	Fe	13011-RAD-004
					Oil	87.0	2.0	2.45	NIFF-H	SR	GN	GN	13011-PPA-004 13011-RZA-004
K24Z3	2,354	TSX	SWH30467ZZ	4	1st	87.0	1.2	2.7	BF-IB	SR	GN	GN	13011-RL5-A02(cyl)
					2nd	87.0	1.2	3.4	TUC	HB	Cr	Fe	
					Oil	87.0	2.0	2.45	NIFF-H	SR	GN	GN	

- DAIHATSU
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- HINO
- HONDA
- ISUZU
- KOMATSU
- MAZDA
- MITSUBISHI
- NISSAN
- UD TRUCKS
- SUZUKI
- TOYOTA
- DAEWOO
- HYUNDAI
- KIA
- CHINA
- ASIA
- CHRYSLER
- FORD
- G M
- EUROPE

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
K24Z3 K24Z6 K24Z7 K24W1 K24W2 K24W3 K24W7 K24W9	2,354	ILX TLX TSX Civic Si CR-V Accord Odyssey	SWH30488ZZ	4	1st	87.0	1.2	2.65	BF-IB	SR	Cr	Fe	13011-R40-A01
					2nd	87.0	1.2	3.4	TUC	HB	Cr	Fe	
					Oil	87.0	2.0	2.5	NIFF-H	SR	Cr	Fe	
			SWH33003ZZ	4	1st	87.0	1.2	2.7	BF-IB	SR	GN	GN	13011-R40-A12
					2nd	87.0	1.0	2.5	TUC	SR	Fe	Fe	
					Oil	87.0	2.0	2.45	NIFF-H	SR	GN	GN	
			SWH33003ZY	4	1st	87.0	1.2	2.7	BF-IB	SR	GN	GN	13011-5A2-A11 13011-RDF-A11
					2nd	87.0	1.0	2.5	TUC	SR	Fe	Fe	
					Oil	87.0	2.0	2.2	NIFF-H	SR	GN	GN	
J32A2 J35A1 J35A3 J35A4 J34A6 J35A7 J35A8 J35A9 J35Z1 J35Z2 J35Z3 J35Z4 J35Z6	3,210 3,471	Odyssey	SWH30438ZZ	V6	1st	89.0	1.2	3.05	BF	SR	Cr	Fe	13011-P8F-A01
					2nd	89.0	1.2	3.4	T1	CR	Fe	Fe	
					Oil	89.0	2.8	2.85	NIFF-S	SR	Cr	Fe	
C32A1	3,206	Legend Acura TL	SWH30371ZZ	V6	1st	90.0	1.2	3.3	BF-IB	SR	Cr	Fe	13011-PY3-003
					2nd	90.0	1.2	3.7	T1	CR	Fe	Fe	13011-PY3-004
					Oil	90.0	2.8	2.85	NIFF-S	SR	GN	GN	
C30A	2,977	NSX	SDH30469ZZ	V6	1st	90.0	1.2	3.1	BF-IB	SR	GN	GN	13011-RKG-E020-M4
					2nd	90.0	1.2	3.4	TUC	HB	Cr	Fe	
					Oil	90.0	2.0	2.75	E-BC16	SR	GN	GN	

● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
4XC-1	1,471	Gemini	SWI10151ZZ	4	1st Oil	77.0 77.0	1.5 2.8	3.3 3.1	T1-IB NIFF-S	HB SR	Cr GN	Fe GN	8-94141-947-0
			SWI10153ZZ	4	1st 2nd Oil	77.0 77.0 77.0	1.2 1.2 2.8	2.9 3.5 3.1	BF T1-IB NIFF-S	SR CR SR	GN Cr GN	GN Fe GN	8-94109-650-0 8-94162-769 8-94162-770 8-94162-771
4XE1 4XE1W	1,588	Panero Gemini	SWI10149ZZ	4	1st 2nd Oil	80.0 80.0 80.0	1.2 1.2 3.0	3.1 3.3 2.5	BF T1 NIFF-S	SR CR SR	Cr Fe Cr	Fe Fe Fe	8-94370-434-0
G161AB G161B G161Z	1,584	Florian Elf	SWI10012ZX	4	1st 2nd Oil	82.0 82.0 82.0	2.0 2.0 4.0	3.05 3.8 3.8	BF T1 NIFF-S	SR CR SR	Cr Fe Cr	Fe Fe Fe	8-94206-294-0 12121-099 12181-133 12181-141 8-94126-639-0(cyl)
G161Z	1,584	LUV	SWI10097ZZ	4	1st 2nd Oil	82.0 82.0 82.0	1.5 1.5 4.0	3.45 3.8 3.25	BF T1 NIFF-S	SR CR SR	Cr Cr Cr	Fe Fe Fe	8-94244-403-0(cyl)
G180	1,817	LUV	SWI10056ZZ	4	1st 2nd Oil	84.0 84.0 84.0	2.0 2.0 4.0	3.8 4.0 3.8	BF T1 NIFF-S	CR CR SR	Cr Fe Cr	Fe Fe Fe	8-94208-205-0 8-94216-640-0(cyl)
G180W	1,817	Gemini 1800 sports	SWI10087ZZ	4	1st 2nd Oil	84.0 84.0 84.0	2.0 2.0 4.0	3.8 3.8 3.8	BF T1 NIFF-S	CR CR SR	Cr Cr Cr	Fe Fe Fe	8-94224-555-0
G180Z 4ZB	1,817	Aska Florian	SWI10098ZZ	4	1st 2nd Oil	84.0 84.0 84.0	1.5 1.5 4.0	3.5 3.8 3.25	BF T1 NIFF-S	SR CR SR	Cr Cr Cr	Fe Fe Fe	8-94141-443-0 8-94249-218-0 8-94244-404-0(cyl)
X22SE 22LE C22NE C22SE	2,198	Amigo Rodeo Elf 2.2	SWI10205ZX	4	1st 2nd Oil	86.0 86.0 86.0	1.5 1.5 3.0	3.45 3.5 2.85	BF TUC NIFF-S	SR CR SR	Cr Fe Cr	Fe Fe Fe	8-92062-027-0 8-92064-589-0
			SWI10206ZZ	4	1st 2nd Oil	86.0 86.0 86.0	1.2 1.5 2.5	2.7 3.5 2.85	BF TUC NIFF-S	SR CR SR	GN Fe Cr	GN Fe Fe	8-92065-115-0
G200	1,949	Piazza 117Coupe	SWI10084ZZ	4	1st 2nd Oil	87.0 87.0 87.0	2.0 2.0 4.0	3.8 3.8 3.3	BF T1 NIFF-S	CR CR SR	Cr Cr Cr	Fe Fe Fe	8-94216-641-0(cyl)
G200ZN	1,949	LUV Trooper	SWI10096ZZ	4	1st 2nd Oil	87.0 87.0 87.0	1.5 1.5 4.0	3.5 3.8 3.3	BF T1 NIFF-S	SR CR SR	Cr Cr Cr	Fe Fe Fe	8-94231-817-0(cyl)

DAIHATSU
SUBARU
HINO
HONDA
ISUZU
KOMATSU
MAZDA
MITSUBISHI
NISSAN
UD TRUCKS
SUZUKI
TOYOTA
DAEWOO
HYUNDAI
KIA
CHINA
ASIA
CHRYSLER
FORD
G M
EUROPE

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
C24SE	2,405	D-MAX 2.4	SWI10220ZZ	4	1st	87.5	1.2	3.1	BF	SR	GN	GN	8-93359-241-0
					2nd	87.5	1.5	3.7	TUC	CR	Fe	Fe	
					Oil	87.5	2.5	2.7	NIFF-H	SR	Cr	Fe	
4ZC1	1,944	Fargo Aska	SWI10133ZZ	4	1st	88.0	1.5	3.45	BF	SR	Cr	Fe	8-94119-545-0
					2nd	88.0	1.5	3.8	T1	CR	Fe	Fe	8-94235-878-0
					Oil	88.0	4.0	3.3	NIFF-S	SR	Cr	Fe	8-94409-555-0
LL2	2,827	Trooper	SWI10154ZZ	6	1st	89.0	1.5	4.05	BF	CR	Cr	Fe	8-14089-059-0
					2nd	89.0	2.0	4.05	T1-RC	CR	Fe	Fe	
					Oil	89.0	4.76	3.9	NIFF-S	SR	Cr	Fe	
LN2	2,197	Hombre GM Truck	SWI10195ZZ	4	1st	89.0	1.5	4.05	BF	CR	Cr	Fe	8-12363-179-0
					2nd	89.0	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	89.0	3.0	2.95	NIFF-S	SR	Cr	Fe	
4ZD1	2,254	Trooper	SWI10123ZZ	4	1st	89.3	1.5	3.3	BF	SR	GN	GN	8-94153-966-0
					2nd	89.3	1.5	3.8	T1	HB	Cr	Fe	8-94136-778-1
					Oil	89.3	4.0	3.05	NIFF-S	SR	GN	GN	
4ZE1	2,559	Mu Bighorn	SWI10144ZZ	4	1st	92.6	1.5	3.3	BF	SR	GN	GN	8-94405-614-0
					2nd	92.6	1.5	4.0	T1	CR	Cr	Fe	8-94446-957-1
					Oil	92.6	4.0	3.05	NIFF-S	SR	GN	GN	
6VD1	3,165	Trooper Bighorn	SWI10185ZZ	6	1st	93.4	1.5	3.45	BF	SR	Cr	Fe	8-97162-198-0
					2nd	93.4	1.5	4.0	TUC	CR	Fe	Fe	
					Oil	93.4	4.0	3.15	NIFF-S	SR	Cr	Fe	
6VE1	3,494	Rodeo Sport	SWI10191ZZ	6	1st	93.4	1.5	3.25	BF	SR	Cr	Fe	8-97136-135-0
					2nd	93.4	1.5	4.0	T1	CR	Fe	Fe	
					Oil	93.4	3.0	2.85	NIFF-S	SR	Cr	Fe	
		Axiom (SUV)	SDI10217ZZ	6	1st	93.4	1.2	3.5	BF-IB	SR	GN	GN	8-97371-553-0
					2nd	93.4	1.2	3.8	TUC	HB	Cr	Fe	
					Oil	93.4	2.0	2.75	E-BC16	SR	GN	GN	
6VD1-2	3,165	Wizard Bighorn Mu	SWI10230ZZ	6	1st	93.4	1.5	3.3	BF	SR	GN	GN	8-97170-113-0
					2nd	93.4	1.5	4.0	T1	CR	Cr	Fe	
					Oil	93.4	3.0	2.85	NIFF-S	SR	GN	GN	
LF6	4,293	Hombre	SWI10196ZZ	V6	1st	101.6	1.5	3.65	BF	SR	Cr	Fe	8-12522-848-0 (cyl)
					2nd	101.6	1.5	4.2	TUC	CR	Fe	Fe	
					Oil	101.6	3.0	3.35	NIFF-S	SR	Cr	Fe	
LF8	5,735	Hombre	SWI10197ZZ	V8	1st	101.6	1.5	3.65	BF	SR	Cr	Fe	8-12522-848-0 (cyl)
					2nd	101.6	1.5	4.2	TUC	CR	Fe	Fe	
					Oil	101.6	3.0	3.35	NIFF-S	SR	Cr	Fe	

● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
3KA1 3KB1	877	For Industrial Machine	SDI10105ZZ	3	1st	70.0	2.0	2.9	BF	HB	Cr	Fe	8-94131-493-0 (cyl)
					2nd	70.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	70.0	3.5	3.25	E-BC3	CR	Cr	Fe	
3KC1	877	For Industrial Machine	SDI10102ZZ	3	1st	74.0	2.0	2.9	BF	HB	Cr	Fe	5-12121-031-0 (cyl)
					2nd	74.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	74.0	3.5	3.25	E-BC3	CR	Cr	Fe	
4EC1	1,487	Gemini	SDI10143ZZ	4	1st	76.0	2.0	3.1	BF	HB	Cr	Fe	8-94144-187-0 8-94332-767-1
					2nd	76.0	1.5	3.1	T1	CR	Cr	Fe	
					Oil	76.0	3.0	3.25	E-BC16	SR	GN	GN	
4FE1	1,487	Fork Lift	SDI10212ZZ	4	1st	76.3	2.0	3.5	BF	CR	Cr	Fe	8-94169-748-0
					2nd	76.3	2.0	3.5	T1	CR	Cr	Fe	
					Oil	76.3	4.0	3.7	E-BC16	CR	Cr	Fe	
4LC1	1,731	For Industrial Machine	SDI10213ZX	4	1st	77.4	2.0	2.7	BF	SR	GN	GN	8-97034-609-0
					2nd	77.4	1.5	3.2	T1	CR	Fe	Fe	
					Oil	77.4	3.5	3.5	E-BC16	HB	Cr	Fe	
4EE2	1,686	Gemini	SDI10202ZZ	4	1st	79.0	2.0	2.7	BF	SR	GN	GN	8-94381-709-1
					2nd	79.0	1.5	3.3	TUC	CR	Fe	Fe	
					Oil	79.0	3.0	3.25	E-BC16	SR	GN	GN	
RZ4E-TC	1,897	D-MAX	SDI10234ZZ	4	1st	80.0	2.0	2.7	BF-K2	SR	PC	GN	8-98333-347-0
					2nd	80.0	1.5	2.7	TUC	SR	GN	GN	
					Oil	80.0	2.0	2.74	E-BC16	SR	GN	GN	
3KR1	1,422	For Industrial Machine	SDI10113ZZ	3	1st	81.0	2.0	3.4	BF	HB	Cr	Fe	5-12121-029-0 (cyl)
					2nd	81.0	1.75	3.4	T1	CR	Fe	Fe	
					Oil	81.0	4.0	3.9	E-BC3	CR	Cr	Fe	
C220	2,207	Truck	SDI10013ZZ	4	1st	83.0	2.0	3.4	T1	CR	Fe	Fe	9-12181-100-0 9-12181-057-0
		Elf			2nd	83.0	2.0	3.4	T1	CR	Fe	Fe	
		TLD11 TLD60			3rd	83.0	2.0	3.4	TUC	CR	Fe	Fe	
		TKD11 TLD30			Oil 1	83.0	4.0	3.8	E-C1	CR	Fe	Fe	
		TLD30V			Oil 2	83.0	4.0	3.4	BC1	CR	Fe	Fe	
		Bus											
C221	2,207	Truck	SDI10017ZX	4	1st	83.0	2.0	2.9	T1	SR	GN	GN	5-12181-122-0
		Elf			2nd	83.0	2.0	3.4	T1	CR	Fe	Fe	
		For Chromard			3rd	83.0	2.0	3.4	TUC	CR	Fe	Fe	
		Liner			Oil 1	83.0	5.0	3.8	E-BC3	CR	Fe	Fe	
					Oil 2	83.0	5.0	3.4	BC1	CR	Fe	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
C201PT	2,207	Truck Elf	SDI10018ZX	4	1st	83.0	2.0	3.1	BF	SR	GN	GN	5-12181-005-0
					2nd	83.0	2.0	3.4	T1	CR	Cr	Fe	5-12121-013-0 (cyl)
					3rd	83.0	2.0	3.4	TUC	CR	Fe	Fe	
					Oil 1	83.0	5.0	3.8	E-BC16	HB	Cr	Fe	
					Oil 2	83.0	5.0	3.4	BC1	CR	Fe	Fe	
3LD1	1,496	For Industrial Machine	SDI10229ZZ	3	1st	83.1	2.0	3.1	BF	SR	GN	GN	8-97113-503
					2nd	83.1	1.75	3.6	TUC	CR	Fe	Fe	
					Oil	83.1	4.0	4.35	E-BC16	SR	GN	GN	
4FB1	1,817	Gemini	SDI10086ZX	4	1st	84.0	2.5	3.25	BF	SR	Cr	Fe	8-94224-221-0(cyl)
					2nd	84.0	2.0	3.5	T1	CR	Cr	Fe	
					Oil	84.0	4.0	4.35	E-BC16	SR	GN	GN	
4FC1(T)	1,995	Aska Fargo	SDI10109ZX	4	1st	84.0	2.5	3.5	BF-K2	HB	Cr	Fe	8-94139-973-0 (cyl)
					2nd	84.0	2.0	2.9	T1	SR	GN	GN	
					Oil	84.0	4.0	4.2	E-BC3	CR	Cr	Fe	
4JD1	2,800	Mu	SDI10121ZX	4	1st	84.0	2.0	3.1	BF	SR	GN	GN	8-94318-702-0 (cyl)
					2nd	84.0	2.0	3.5	T1	CR	Cr	Fe	
					Oil	84.0	4.0	4.35	E-BC16	SR	GN	GN	
4LE1	2,179	For Industrial Machine	SDI10216ZX	4	1st	85.0	2.0	2.9	BF	SR	GN	GN	8-97141-208-0
					2nd	85.0	1.75	3.7	T1-IB	CR	Fe	Fe	
					Oil	85.0	4.0	4.1	E-BC16	SR	Cr	Fe	
C240	2,369	Truck Elf Florian Journey For Chromard Liner	SDI10047ZX	4	1st	86.0	2.0	3.1	T1	SR	GN	GN	9-12181-138-0
					2nd	86.0	2.0	3.5	T1	CR	Fe	Fe	
					3rd	86.0	2.0	3.5	TUC	CR	Fe	Fe	
					Oil 1	86.0	5.0	3.9	E-BC3	CR	Fe	Fe	
					Oil 2	86.0	5.0	3.5	BC1	CR	Fe	Fe	
C190	1,951	Truck Elf For Chromard Liner	SDI10051ZX	4	1st	86.0	2.0	3.1	T1	SR	GN	GN	9-12181-603-0
					2nd	86.0	2.0	3.5	T1	CR	Fe	Fe	5-12181-027-0
					3rd	86.0	2.0	3.5	TUC	CR	Fe	Fe	9-12181-603-0
	2,369				Oil	86.0	5.0	4.2	E-BC3	CR	Fe	Fe	9-12181-605-0
C190G	1,951	Florian Van	SDI10083ZX	4	1st	86.0	2.0	3.25	BF	SR	Cr	Fe	5-12121-008-0 (cyl)
					2nd	86.0	2.0	3.5	T1	CR	Cr	Fe	
					3rd	86.0	2.0	3.5	TUC	CR	Cr	Fe	
					Oil	86.0	5.0	4.3	E-BC3	CR	Cr	Fe	
C190	1,951	Truck Elf 150	SDI10093ZZ	4	1st	86.0	2.5	4.0	BF	HB	Cr	Fe	8-94104-954-0 (cyl)
					2nd	86.0	2.0	3.5	T1-IC	CR	Cr	Fe	5-12121-022-0 (cyl)
	2,369				Oil	86.0	5.0	4.3	E-BC3	CR	Cr	Fe	5-12121-022-01 (cyl)
C190	1,951	Truck Elf 150 For Chromard Liner	SDI10095ZZ	4	1st	86.0	2.5	3.8	T1	CR	Fe	Fe	8-94104-949-0 (cyl)
					2nd	86.0	2.0	3.5	TUC	CR	Fe	Fe	5-12121-021-0 (cyl)
	2,369				Oil	86.0	5.0	4.2	E-BC3	CR	Fe	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
C240PKG	2,369	Truck Elf For Chromard Liner	SDI10122ZZ	4	1st	86.0	2.5	3.8	BF	CR	Fe	Fe	8-94471-442-0
					2nd	86.0	2.0	3.5	TUC	CR	Fe	Fe	
					Oil	86.0	5.0	4.2	E-BC3	CR	Fe	Fe	
C223	2,238	117 Coupe	SDI10089ZX	4	1st	88.0	2.5	3.3	BF	SR	GN	GN	5-12121-017-0(cyl)
					2nd	88.0	2.0	3.3	TUC	SR	GN	GN	
					Oil	88.0	4.5	4.7	E-BC3	CR	Cr	Fe	8-94100-355-0 (cyl)
		Rodeo Bighorn For Chromard Liner	SDI10099ZX	4	1st	88.0	2.5	3.3	BF	SR	GN	GN	5-12121-024-0(cyl)
					2nd	88.0	2.0	3.3	TUC	SR	GN	GN	
					Oil	88.0	4.5	4.7	E-BC3	CR	Fe	Fe	
C223 4FD1	2,238	Rodeo Bighorn	SDI10101ZX	4	1st	88.0	2.0	3.25	BF	SR	Cr	Fe	8-94250-730-0 (cyl)
					2nd	88.0	2.0	3.55	TUC	CR	Cr	Fe	
					Oil	88.0	4.0	4.35	E-BC16	SR	GN	GN	
C223	2,238	Rodeo Bighorn For Chromard Liner	SDI10103ZZ	4	1st	88.0	2.0	3.5	BF	CR	Fe	Fe	8-94253-736-0 (cyl)
					2nd	88.0	2.0	3.55	TUC	CR	Fe	Fe	
					Oil	88.0	4.0	4.0	E-BC3	CR	Fe	Fe	8-94408-207-0 (cyl)
C223T	2,238	Truck Faster Hi Pack Van	SDI10111ZX	4	1st	88.0	2.5	3.3	BF	SR	GN	GN	8-94158-084-0(cyl)
					2nd	88.0	2.0	3.55	TUC	CR	Cr	Fe	
					Oil	88.0	4.0	4.0	E-BC3	CR	Cr	Fe	
			SDI10119ZZ	4	1st	88.0	2.5	3.5	BF-K2	HB	Cr	Fe	8-94468-521-0
					2nd	88.0	2.0	3.4	T1	HB	Cr	Fe	
					Oil	88.0	4.0	4.0	E-BC3	HB	Cr	Fe	
D201	2,229	For Industrial Machine	SDI10124ZX	4	1st	88.0	2.0	3.1	BF	SR	GN	GN	8-94417-175-0
					2nd	88.0	2.0	3.7	T1-IC	CR	Cr	Fe	
					3rd	88.0	2.0	3.7	BI-TUC	CR	Fe	Fe	
					Oil	88.0	4.0	4.15	E-BC16	SR	GN	GN	
4FG1-1	2,771	Fargo	SDI10272ZZ	4	1st	89.3	2.0	3.1	BF	SR	GN	GN	8-94469-634-0
					2nd	89.3	2.0	3.7	T1	CR	Cr	Fe	
					Oil	89.3	4.0	4.15	E-BC16	SR	Cr	Fe	
4JB1	2,771	Truck Elf 150 For Chromard Liner	SDI10110ZX	4	1st	93.0	2.0	3.5	BF	SR	GN	GN	8-94247-867-0(cyl)
					2nd	93.0	2.0	4.0	TUC	CR	Fe	Fe	
					Oil	93.0	4.0	4.35	E-BC16	SR	GN	GN	5-87311082-0(cyl) 97710771(cyl)

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
4JK1-TC	2,499	Truck Elf Mu Rodeo D-MAX For Chromard Liner	SDI10211ZZ	4	1st	93.0	2.0	4.0	BF	CR	Fe	Fe	8-97319-087-0
					2nd	93.0	2.0	4.0	TUC	CR	Fe	Fe	5-87310-519-0
					Oil	93.0	4.0	4.35	E-BC16	SR	GN	GN	
4JG1	3,059	Truck Elf Bighorn For Chromard Liner	SDI10129ZZ	4	1st	95.4	2.0	4.0	BF	CR	Fe	Fe	8-94379-486-0
					2nd	95.4	2.0	4.0	T1	CR	Fe	Fe	
					Oil	95.4	4.0	4.1	E-BC3	CR	Fe	Fe	
4JG2	3,059	Bighorn Truck Elf For Chromard Liner	SDI10130ZZ	4	1st	95.4	2.296	4.0	BF-K1	CR	Fe	Fe	8-94370-449-0
					2nd	95.4	2.0	4.0	T1	CR	Fe	Fe	
					Oil	95.4	4.0	4.1	E-BC3	CR	Fe	Fe	
			SDI10141ZZ	4	1st	95.4	2.5	4.0	BF-IB	CR	Fe	Fe	8-97080-215-0
					2nd	95.4	2.0	4.0	T1-IB	CR	Fe	Fe	
					Oil	95.4	4.0	4.35	E-BC16	SR	GN	GN	
4JH1	3,059	D-MAX For Chromard Liner	SDI10193ZZ	4	1st	95.4	2.5	4.0	BF	CR	Fe	Fe	8-97941-122-0
					2nd	95.4	2.0	3.8	TUC	CR	Fe	Fe	8-97259-941-0
					Oil	95.4	3.0	3.25	E-BC16	SR	GN	GN	
4JJ1-TC	2,999	Truck Elf	SDI10215ZZ	4	1st	95.4	2.0	3.45	BF-K2	SR	GN	GN	8-98053-579-0
					2nd	95.4	2.0	4.4	T1-IC	CR	Cr	Fe	
					Oil	95.4	3.0	3.0	E-BC16	SR	GN	GN	
			SDI10210ZY	4	1st	95.4	2.0	3.45	BF-K2	SR	GN	GN	8-97388-734-0
					2nd	95.4	1.5	4.0	T1	CR	Fe	Fe	8-98096-676-0
					Oil	95.4	3.0	3.0	E-BC16	SR	GN	GN	8-98173-004-0
			SDI10209ZZ	4	1st	95.4	2.0	3.45	BF-K2	SR	GN	GN	8-98057-222-0
					2nd	95.4	1.5	3.5	T1	SR	GN	GN	8-98171-040-0
					Oil	95.4	3.0	3.0	E-BC16	SR	GN	GN	8-98249-715-0
4JX1	2,999	Mu Bighorn Wizard	SDI10171ZZ	4	1st	95.4	2.448	4.0	BF-K1	HB	Cr	Fe	8-97184-533-0
					2nd	95.4	2.0	4.0	T1-IC	CR	Cr	Fe	
					Oil	95.4	4.0	4.35	E-BC16	SR	GN	GN	
4KH1	2,999	Sweeper Truck	SDI10224ZZ	4	1st	95.4	2.5	3.5	BF	SR	GN	GN	8-98188-644-0
					2nd	95.4	2.0	3.5	TUC	SR	GN	GN	
					Oil	95.4	3.0	3.0	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
DA120	6,126	TX TS TW TXD	SDI10028ZX	6	1st	100.0	2.5	3.5	BF	SR	GN	GN	12181-063
					2nd	100.0	2.5	4.0	T1	CR	Fe	Fe	12181-091
					3rd	100.0	2.5	4.0	T1	CR	Fe	Fe	
					Oil 1	100.0	4.0	4.1	E-C1	CR	Cr	Fe	
					Oil 2	100.0	4.0	4.0	BC1	CR	Fe	Fe	
		Bus BA4341P · 343 BA351 · BA541 BA543 BA551 BB341 · BA351 BA551 · BB351 BX352 · 531 BX552 For Industrial Machine	SDI10061ZX	6	1st	100.0	2.5	3.7	BF	SR	GN	GN	1-12181-036-0
					2nd	100.0	2.5	4.4	T1-IC	CR	Fe	Fe	1-12181-087-0
					3rd	100.0	2.5	4.4	BI-TUC	CR	Fe	Fe	1-12181-109-0
					Oil	100.0	5.0	4.95	E-BC16	SR	GN	GN	1-12181-128-0
													1-12121-001-0 (cyl) 1-12181-005-0 (cyl)
		For Industrial Machine	SDI10076ZZ	6	1st	100.0	3.0	4.4	BF	CR	Cr	Fe	1-12181-040-0
					2nd	100.0	2.5	4.4	T1-IC	CR	Fe	Fe	1-12121-007-0 (cyl)
					3rd	100.0	2.5	4.4	BI-TUC	CR	Fe	Fe	
					Oil	100.0	5.0	4.8	E-BC3	CR	Cr	Fe	
DA220	4,084	For Industrial Machine	SDI10029ZX	4	1st	100.0	2.5	3.5	BF	SR	GN	GN	9-12181-093-0
					2nd	100.0	2.5	4.0	T1	CR	Fe	Fe	
					3rd	100.0	2.5	4.0	T1	CR	Fe	Fe	
					Oil 1	100.0	4.0	4.1	E-C1	CR	Cr	Fe	
					Oil 2	100.0	4.0	4.0	BC1	CR	Fe	Fe	
			SDI10062ZX	4	1st	100.0	2.5	3.7	BF	SR	GN	GN	1-12181-006-0
					2nd	100.0	2.5	4.4	T1-IC	CR	Fe	Fe	1-12181-038-0
					3rd	100.0	2.5	4.4	BI-TUC	CR	Fe	Fe	1-12181-111-0
					Oil	100.0	5.0	4.8	E-BC3	CR	Cr	Fe	1-12121-001-0 (yl)
DA640S(T)	6,373	Fork Lift	SDI10057ZZ	6	1st	102.0	3.5	4.4	BF-K1	CR	Cr	Fe	1-12181-014-0
					2nd	102.0	2.5	4.4	T1-IC	CR	Fe	Fe	1-12121-035-0
					3rd	102.0	2.5	4.4	BI-TUC	CR	Fe	Fe	1-12181-011-0 (cyl)
					Oil	102.0	5.0	4.8	E-BC3	CR	Cr	Fe	
DA640PP		For Industrial Machine	SDI10066ZY	6	1st	102.0	3.0	4.4	BF	CR	Cr	Fe	1-12181-034-0
					2nd	102.0	2.5	4.4	T1-IC	CR	Fe	Fe	1-12121-010-0 (cyl)
					3rd	102.0	2.5	4.4	BI-TUC	CR	Fe	Fe	
					Oil	102.0	5.0	4.8	E-BC3	CR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
DA640	6,373	Truck BA BF BS TXD	SDI10036ZX	6	1st	102.0	2.5	3.5	BF	SR	GN	GN	1-12161-064-0
					2nd	102.0	2.5	4.0	T1	CR	Fe	Fe	1-12181-092-0
					3rd	102.0	2.5	4.0	T1	CR	Fe	Fe	
					Oil 1	102.0	4.0	4.1	E-C1	CR	Cr	Fe	
					Oil 2	102.0	4.0	4.0	BC1	CR	Fe	Fe	
		Bus BA741 BA741P BA743 BB751 BR10 BR10P BR20 BR20P BR351 BR351P BX721E BX731 BX752	SDI10063ZX	6	1st	102.0	2.5	3.7	BF	SR	GN	GN	1-12181-033-0
					2nd	102.0	2.5	4.4	T1	CR	Fe	Fe	1-12181-074-0
					3rd	102.0	2.5	4.4	TUC	CR	Fe	Fe	1-12181-088-0
					Oil	102.0	5.0	4.8	E-BC3	CR	Cr	Fe	1-12181-110-0
													1-12121-009-0 (cyl)
6BD1MT	5,393	For Marine Engine For Chromard Liner	SDI10085ZZ	6	1st	102.0	3.5	4.4	BF-K1	CR	Fe	Fe	5-12121-015-0 (cyl)
					2nd	102.0	2.5	4.4	T1	CR	Fe	Fe	
					Oil	102.0	5.0	4.8	E-BC3	CR	Fe	Fe	
4BD2	3,856	For Chromard Liner	SDI10147ZX	4	1st	102.0	3.0	3.9	BF	SR	GN	GN	8-97117-686-0
					2nd	102.0	2.0	3.7	T1	SR	GN	GN	
					Oil	102.0	4.0	4.45	E-BC16	SR	GN	GN	
6BD1 6BB1	5,393	Truck SBR320・380 400・450・500 JBR FBR370 YBR360 310 Tractor VBR320 VBR322 For Chromard Liner	SDI10065ZX	6	1st	102.0	3.0	3.9	BF	SR	GN	GN	5-12181-023-2
					2nd	102.0	2.5	4.4	TUC	CR	Fe	Fe	5-12121-055-0 (cyl)
					Oil	102.0	5.0	4.95	E-BC16	SR	GN	GN	
4BB1	3,595	Elf Journey For Chromard Liner	SDI10070ZX	4	1st	102.0	3.0	3.9	BF	SR	GN	GN	5-12181-024-1
					2nd	102.0	2.5	4.4	TUC	CR	Fe	Fe	5-12121-005-0 (cyl)
					Oil	102.0	5.0	4.95	E-BC16	SR	GN	GN	5-12181-003-0
4BC1 4BD1 4BD1-T	3,268	Truck Elf Journey For Chromard Liner	SDI10090ZX	4	1st	102.0	3.0	3.9	BF	SR	GN	GN	5-12121-004-0 (cyl)
					2nd	102.0	2.5	4.4	TUC	CR	Fe	Fe	
					Oil	102.0	5.0	4.95	E-BC16	SR	GN	GN	
4BD1L	3,856	Journey For Chromard Liner	SDI10125ZX	4	1st	102.0	3.0	3.9	BF	SR	GN	GN	8-94326-650-0
					2nd	102.0	2.5	4.4	TUC	CR	Fe	Fe	
					Oil	102.0	4.0	4.45	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
8GF1	6,599	Pick up Truck SUV	SDI10183ZY	V8	1st	103.0	2.948	3.9	BF-K1	SR	GN	GN	8-97250-331-2
					2nd	103.0	2.0	4.4	T1-IC	CR	Cr	Fe	
					Oil	103.0	3.0	3.0	E-BC16	SR	GN	GN	
6BF1	6,130	Truck Forward For Chromard Liner	SDI10082ZX	6	1st	105.0	3.0	3.7	BF	SR	GN	GN	1-12121-052-0
					2nd	105.0	2.5	4.7	TUC	CR	Fe	Fe	5-12121-006-0 (cyl)
					Oil	105.0	5.0	4.9	E-BC3	CR	Fe	Fe	
6BG1	6,494	Truck Forward (FRS12) For Chromard Liner	SDI10104ZX	6	1st	105.0	3.0	3.7	BF	SR	GN	GN	1-12121-065-0
					2nd	105.0	2.5	4.7	TUC	CR	Fe	Fe	1-12121-101-1 (cyl)
					Oil	105.0	4.0	4.35	E-BC16	SR	GN	GN	
6BG1MTC	6,494	For Marine Engine For Chromard Liner	SDI10148ZX	6	1st	105.0	3.306	3.9	BF-K1	SR	GN	GN	1-12121-121-0
					2nd	105.0	2.5	4.7	TUC	CR	Fe	Fe	
					Oil	105.0	4.0	4.35	E-BC16	SR	GN	GN	
4BE1	3,636	Truck Elf 2ton For Chromard Liner	SDI10118ZX	4	1st	105.0	3.0	3.7	BF	SR	GN	GN	8-94418-918-0
					2nd	105.0	2.5	4.5	TUC	CR	Fe	Fe	
					Oil	105.0	5.0	4.9	E-BC3	CR	Fe	Fe	
6BG1-TC	6,494	Truck Forward For Chromard Liner	SDI10223ZZ	6	1st	105.0	3.306	3.9	BF-K1	SR	GN	GN	1-12121-146-0 (cyl)
					2nd	105.0	2.5	4.4	T1-IC	CR	Fe	Fe	
					3rd	105.0	2.5	4.4	BI-TUC	CR	Fe	Fe	
					Oil	105.0	4.0	4.35	E-BC16	SR	GN	GN	
4BG1	4,329	Truck Elf For Chromard Liner	SDI10168ZX	4	1st	105.0	3.0	3.7	BF	SR	GN	GN	8-97123-833-0
					2nd	105.0	2.5	4.7	TUC	CR	Fe	Fe	
					Oil	105.0	4.0	4.35	E-BC16	SR	GN	GN	
			SDI10131ZX	4	1st	105.0	3.306	3.9	BF-K1	SR	GN	GN	8-97032-075-0
					2nd	105.0	2.5	4.4	T1-IC	CR	Fe	Fe	
					Oil	105.0	4.0	4.35	E-BC16	SR	GN	GN	
6HE1	7,127	Truck Forward	SDI10126ZX	6	1st	110.0	3.0	3.9	BF	SR	GN	GN	8-94396-840-0
					2nd	110.0	2.5	4.7	TUC	CR	Cr	Fe	
					Oil	110.0	4.0	4.35	E-BC16	SR	GN	GN	
6HE1-TC	7,127	Truck Forward	SDI10146ZY	6	1st	110.0	3.836	4.5	BF-K1	HB	Cr	Fe	8-94390-529-1
					2nd	110.0	3.0	4.4	T1-IC	CR	Cr	Fe	
					3rd	110.0	2.5	4.7	TUC	CR	Cr	Fe	
					Oil	110.0	3.0	3.25	E-BC16	SR	GN	GN	
			SDI10138ZX	6	1st	110.0	3.836	4.5	BF-K1	HB	Cr	Fe	8-94394-418-1
					2nd	110.0	3.0	4.1	BF	SR	GN	GN	
					3rd	110.0	2.5	4.7	TUC	CR	Cr	Fe	
					Oil	110.0	4.0	4.35	E-BC16	SR	GN	GN	

DAIHATSU
SUBARU
HINO
HONDA
ISUZU
KOMATSU
MAZDA
MITSUBISHI
NISSAN
UD TRUCKS
SUZUKI
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DAEWOO
HYUNDAI
KIA
CHINA
ASIA
CHRYSLER
FORD
G M
EUROPE

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
4HE1	4,751	Truck Elf	SDI10140ZZ	4	1st	110.04	3.0	4.1	BF-K2	SR	GN	GN	8-97078-779-0
					2nd	110.04	2.5	4.7	T1-IC	CR	Cr	Fe	
					Oil	110.04	4.0	4.35	E-BC16	SR	GN	GN	
4HE1-TC	4,751	Truck Elf	SDI10177ZZ	4	1st	110.04	3.0	4.1	BF-K2	SR	GN	GN	8-97166-992-0
					2nd	110.04	2.0	4.1	T1	SR	GN	GN	
					3rd	110.04	1.2	3.9	T1	SR	GN	GN	
					Oil	110.04	3.0	3.25	E-BC16	SR	GN	GN	
4HF1	4,334	Truck Elf	SDI10127ZX	4	1st	112.0	3.0	3.9	BF	SR	GN	GN	8-97028-691-0
					2nd	112.0	2.5	4.7	TUC	CR	Cr	Fe	
					Oil	112.0	4.0	4.35	E-BC16	SR	GN	GN	
			SDI10139ZZ	4	1st	112.0	3.0	4.05	BF-K2	SR	Cr	Fe	8-97109-462-0
					2nd	112.0	2.5	4.7	TUC	CR	Cr	Fe	
					Oil	112.0	4.0	4.35	E-BC16	SR	GN	GN	
8PA1	9,971	Truck SKS390 SKW520	YDI10080ZX (1cyl)	V8	1st	115.0	3.0	4.1	BF	SR	GN	GN	1-12181-016-0
10PA1	12,464	Truck Bus SRZ440 CRA650		V10	2nd	115.0	2.5	4.8	TUC	HB	Cr	Fe	1-12121-042-0
		Truck VTR300 VRZ440 VTR290			Oil	115.0	6.0	5.7	E-BC3	HB	Cr	Fe	1-12181-060-0 (cyl)
12PA1	14,957			V12									
8PB1	11,217	New Power	YDI10081ZX (1cyl)	V8	1st	115.0	3.0		BF	SR	GN	GN	1-12181-043-0 (cyl)
10PB1	14,022	Tractor		V10	2nd	115.0	2.5	4.8	T1	CR	Cr	Fe	1-12181-058-0 (cyl)
		Dump			Oil	115.0	4.0	4.35	E-BC16	SR	GN	GN	1-12181-061-0 (cyl)
12PB1	16,826			V12									
4HG1 4HJ1 4HK1	4,751	Truck Elf	SDI10160ZZ	4	1st	115.0	3.0	4.1	BF-K2	SR	GN	GN	8-97105-867-0 (cyl)
					2nd	115.0	2.5	4.8	TUC	CR	Cr	Fe	8-97219-054-0 (cyl)
					Oil	115.0	4.0	4.35	E-BC16	SR	GN	GN	8-97603-423-1 (cyl)
													8-98040-125-0 (cyl)
													8-98054-995-0 (cyl)
6HK1	7,790	Forward Truck	SDI10228ZZ	6	1st	115.0	3.0	4.1	BF-K2	SR	GN	GN	8-98040-125-0 (cyl)
					2nd	115.0	2.5	4.8	TUC	CR	Cr	Fe	
					Oil	115.0	4.0	4.35	E-BC16	SR	GN	GN	
4HK1X	5,193	Truck Elf	SDI10207ZZ	4	1st	115.0	2.948	4.15	BF-K1	SR	GN	GN	8-98017-166-0
					2nd	115.0	2.0	4.3	T1-IB	SR	GN	GN	
					3rd	115.0	2.5	4.8	TUC	CR	Cr	Fe	
					Oil	115.0	3.0	3.1	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
6HH1	8,226	Truck Forward Journey Erga	SDI10163ZX	6	1st	115.0	3.5	4.1	BF	SR	GN	GN	8-94390-799-0 (cyl)
					2nd	115.0	2.5	4.8	TUC	CR	Cr	Fe	8-94390-799-2 (cyl)
					Oil	115.0	4.0	4.35	E-BC16	SR	GN	GN	
			SDI10184ZX	6	1st	115.0	3.5	4.1	BF	SR	GN	GN	8-94392-128-1
					2nd	115.0	2.5	4.8	TUC	CR	Cr	Fe	
					Oil	115.0	3.0	3.1	E-BC16	SR	GN	GN	
6HK1-TC	7,790	Truck Erga	SDI10178ZZ	6	1st	115.0	2.948	4.1	BF-K1	SR	GN	GN	8-94391-502-4 (cyl)
					2nd	115.0	2.0	4.3	T1-IB	SR	GN	GN	
					3rd	115.0	2.5	4.8	TUC	CR	Cr	Fe	
					Oil	115.0	3.0	3.1	E-BC16	SR	GN	GN	
4HL1	4,777	Elf Forward	SDI10192ZZ	4	1st	115.0	3.0	4.1	BF	SR	GN	GN	8-97331-641-0
					2nd	115.0	2.0	4.25	T1	SR	Cr	Fe	
					Oil	115.0	3.0	3.1	E-BC16	SR	GN	GN	
6HL1-TC	7,166	Truck Forward	SDI10186ZZ	6	1st	115.0	2.948	4.25	BF-K1	SR	Cr	Fe	8-97601-318-1
					2nd	115.0	2.5	4.8	T1-IC	CR	Fe	Fe	
					Oil	115.0	3.0	3.1	E-BC16	SR	GN	GN	
6HF1-CNG	7,790	CNG Truck	SDI10214ZZ	6	1st	115.0	3.5	4.1	BF	SR	GN	GN	8-98141-535-0
					2nd	115.0	2.5	4.8	TUC	CR	Cr	Fe	
					Oil	115.0	4.0	4.35	E-BC16	SR	GN	GN	
6SA1	8,413	Truck Forward 200PS	SDI10112ZX	6	1st	115.0	3.0	4.1	BF	SR	GN	GN	1-12121-070-0
					2nd	115.0	2.5	4.8	TUC	HB	Cr	Fe	1-12121-113-0
					Oil	115.0	4.0	4.15	E-BC16	SR	GN	GN	1-12121-075-0 (cyl)
4HF1-LPG	4,334	Truck Elf	SDI10190ZZ	4	1st	115.0	3.0	4.1	BF	SR	GN	GN	8-97258-337-0
					2nd	115.0	2.5	4.8	TUC	CR	Cr	Fe	8-98144-475
					Oil	115.0	3.0	3.1	E-BC16	SR	GN	GN	
10PC1	15,014	Truck CXR 10.75ton	SDI10106ZX	V10	1st	119.0	3.0	4.1	BF	SR	GN	GN	1-12121-047-0 (cyl)
					2nd	119.0	2.5	4.8	T1	CR	Cr	Fe	
					Oil	119.0	4.0	5.0	E-C2	HB	Cr	Fe	
DH100	10,179	Truck TD70E TD80E TD90E TD141 TP70E TP81 TP81E TP91E Bus BC30 BC141 BC151 BC151P BC161 BU05 BU10 BU15 BU20	SDI10040ZX	6	1st	120.0	3.0	4.1	BF	SR	GN	GN	1-12181-001-0
					2nd	120.0	3.0	5.0	T1	CR	Fe	Fe	1-12181-083-0
					3rd	120.0	3.0	5.0	TUC	CR	Fe	Fe	1-12181-086-0
					Oil	120.0	6.0	5.6	E-BC3	CR	Cr	Fe	1-12181-114-0
													1-12121-016-0 (cyl)
													12181-050
													12181-068

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
6SD1	9,839	Truck Forward CXG23	SDI10179ZX	6	1st	120.0	3.5	4.1	BF	SR	GN	GN	1-12121-094-1
					2nd	120.0	2.5	5.0	TUC	HB	Cr	Fe	
					Oil	120.0	5.0	4.95	E-BC16	SR	Cr	Fe	
6SD1-TC	9,839	Truck Giga CXM CXK CXG	SDI10194ZZ	6	1st	120.0	4.0	4.9	BF-K1	HB	Cr	Fe	1-12121-119-2
					2nd	120.0	3.0	4.6	T1-IC	CR	Cr	Fe	
					3rd	120.0	3.0	4.9	BI-TUC	CR	Cr	Fe	
					Oil	120.0	4.0	4.4	E-BC16	SR	GN	GN	
			SDI10218ZZ	6	1st	120.0	3.0	4.1	BF-K1	SR	GN	GN	1-12121-149-0
					2nd	120.0	2.0	4.25	T1-IB	SR	Cr	Fe	
					3rd	120.0	3.0	4.9	BI-TUC	HB	Cr	Fe	
6UZ1-TCC	9,839	Giga Truck	SDI10225ZZ	6	1st	120.0	2.5	4.3	BF-K1	SR	GN	GN	8-98056-464-1
					2nd	120.0	2.0	4.25	T1-IB	SR	Cr	Fe	
					3rd	120.0	3.0	4.9	BI-TUC	HB	Cr	Fe	
					Oil	120.0	3.0	3.25	E-BC16	SR	GN	GN	
6QA1 D920	11,044 9,203	Bus TDJ DVR 25DP 35DP	SDI10088ZX	6	1st	125.0	3.0	4.7	BF	SR	GN	GN	1-12121-028-0(cyl) 1-12121-046-0(cyl) 1-12121-013-0(cyl)
					2nd	125.0	2.5	5.1	TUC	CR	Cr	Fe	
					Oil	125.0	6.0	5.5	E-BC3	CR	Cr	Fe	
PE1		Truck Erga Giga	YDI10164ZZ (1cyl)	1	1st	127.0	3.806	4.7	BF-K1	SR	GN	GN	1-12121-129-1
					2nd	127.0	3.0	5.0	T1-IC	HB	Cr	Fe	
					3rd	127.0	3.0	5.2	BI-TUC	CR	Cr	Fe	
					Oil	127.0	4.0	4.35	E-BC16	SR	GN	GN	
			YDI10180ZY (1cyl)	1	1st	127.0	2.917	4.7	BF-K1	SR	GN	GN	1-12121-145-0
					2nd	127.0	2.0	4.7	T1-IB	SR	GN	GN	
					3rd	127.0	3.0	5.2	BI-TUC	CR	Cr	Fe	
					Oil	127.0	4.0	4.35	E-BC16	SR	GN	GN	
10PE1	19,001	Erga Giga	SDI10164ZZ	V10	1st	127.0	3.806	4.7	BF-K1	SR	GN	GN	1-12121-129-0
					2nd	127.0	3.0	5.0	T1-IC	HB	Cr	Fe	
					3rd	127.0	3.0	5.2	BI-TUC	CR	Cr	Fe	
					Oil	127.0	4.0	4.35	E-BC16	SR	GN	GN	
6RB1-MTC	13,741	Dump CXM 10.5ton L275PS	SDI10116ZZ	6	1st	132.9	4.0	5.5	BF	HB	Cr	Fe	1-12121-076-0
					2nd	132.9	2.5	5.5	TUC	HB	Cr	Fe	
					Oil	132.9	4.0	4.3	E-BC3	HB	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
6WA1-TC	12,068	Truck Giga	SDI10132ZZ	6	1st	132.9	4.306	5.2	BF-K1	HB	Cr	Fe	1-12121-117-0
					2nd	132.9	3.0	5.2	T1-IC	HB	Cr	Fe	
					3rd	132.9	3.0	5.5	BI-TUC	CR	Cr	Fe	
					Oil	132.9	5.0	5.7	E-BC3	CR	Cr	Fe	
			SDI10158ZZ	6	1st	132.9	4.306	5.2	BF-K1	HB	Cr	Fe	1-12121-127-1 (cyl)
					2nd	132.9	3.0	5.2	T1-IC	HB	Cr	Fe	1-12121-136-0 (cyl)
					3rd	132.9	3.0	5.5	BI-TUC	CR	Cr	Fe	1-12121-142-0 (cyl)
					Oil	132.9	4.0	4.4	E-BC16	SR	GN	GN	
			SDI10173ZZ	6	1st	132.9	3.806	4.9	BF-K1	SR	GN	GN	
					2nd	132.9	3.0	5.2	T1-IC	HB	Cr	Fe	
					3rd	132.9	3.0	5.5	BI-TUC	CR	Cr	Fe	
					Oil	132.9	5.0	5.7	E-BC3	CR	Cr	Fe	
			SDI10174ZZ	6	1st	132.9	3.806	4.9	BF-K1	SR	GN	GN	1-12121-139-0 (cyl)
					2nd	132.9	3.0	5.2	T1-IC	HB	Cr	Fe	1-12121-141-0 (cyl)
					3rd	132.9	3.0	5.5	BI-TUC	CR	Cr	Fe	
					Oil	132.9	4.0	4.4	E-BC16	SR	GN	GN	
E120	12,023	TGK55E・75E TMK05E Truck VPR290 TDK46 SPM701 Bus 30KP 35KP BU4K	SDI10050ZZ	6	1st	135.0	4.0	5.5	BF	HB	Cr	Fe	9-12181-149-0
					2nd	135.0	2.5	5.5	T1	CR	Cr	Fe	1-12121-023-0 (cyl)
					3rd	135.0	2.5	5.5	T1	CR	Fe	Fe	
					Oil	135.0	7.0	6.2	E-BC3	CR	Cr	Fe	
			SDI10075ZZ	6	1st	135.0	4.0	5.5	BF	HB	Cr	Fe	1-12181-022-0
					2nd	135.0	2.5	5.5	TUC	HB	Cr	Fe	1-12121-034-0 (cyl)
					Oil	135.0	7.0	6.2	E-BC3	CR	Cr	Fe	
6RA1 6RA2	12,023	Truck	SDI10100ZZ	6	1st	135.0	4.0	5.5	BF	HB	Cr	Fe	1-12121-040-0 (cyl)
		SHM CXM			2nd	135.0	2.5	5.5	T1	CR	Cr	Fe	1-12121-037-0 (cyl)
		10.5ton			Oil	135.0	5.0	6.2	E-BC3	CR	Cr	Fe	
6RB1 6RB2	13,741	Truck											
		SBM CXM											
		10.5ton											
6RB1	13,741	Truck	SDI10117ZZ	6	1st	135.0	4.0	5.5	BF	HB	Cr	Fe	1-12121-073-0
		CXM 10.75ton			2nd	135.0	2.5	5.5	TUC	HB	Cr	Fe	
		L320PS			Oil	135.0	4.0	4.3	E-C2	HB	Cr	Fe	
6WG1UTMC 6WF1TMC		Truck	SDI10182ZZ	6	1st	142.9	2.948	5.3	BF-K1	SR	GN	GN	1-12121-147-0
		Giga			2nd	142.9	2.5	5.3	T1-IB	SR	GN	GN	
					3rd	142.9	3.0	5.9	BI-TUC	CR	Cr	Fe	
					Oil	142.9	4.0	4.4	E-BC16	SR	GN	GN	

[illegible]

● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
4D92	2,610	Bulldozer Power Shovel	SDK04012ZZ	4	1st	92.0	3.0	4.0	T1-K1	CR	Cr	Fe	6141-31-2020
					2nd	92.0	3.0	4.0	T1	CR	Fe	Fe	6140-31-2040(cyl)
					Oil	92.0	6.0	4.5	E-BC3	CR	Cr	Fe	
4D94	2,940	Bulldozer Power Shovel	SDK04015ZZ	4	1st	94.0	2.9	3.8	BF	HB	Cr	Fe	6142-32-2020
					2nd	94.0	2.5	4.1	T1	CR	Fe	Fe	6142-32-2030(cyl)
					Oil	94.0	5.0	4.4	E-BC16	CR	Cr	Fe	
4D95 S4D95	3,260	Bulldozer Power Shovel Fork Lift	SDK04014ZY	4	1st	95.0	2.2	4.0	BF-K2	CR	Cr	Fe	6202-32-2300
					2nd	95.0	2.2	4.0	T1-K2	CR	Fe	Fe	
					Oil	95.0	4.0	4.15	E-BC16	SR	GN	GN	
			SDK04031ZY	4	1st	95.0	2.0	4.0	BF	CR	Cr	Fe	6204-31-2200
					2nd	95.0	2.0	4.0	T1-IC	CR	Fe	Fe	6204-31-2203
					Oil	95.0	4.0	4.15	E-BC16	SR	GN	GN	
S6D95	4,890	Bulldozer Power Shovel	SDK04018ZX	6	1st	95.0	2.5	3.45	BF-K1	SR	Cr	Fe	6207-31-2500
					2nd	95.0	2.2	4.0	T1-K2	CR	Cr	Fe	
					Oil	95.0	4.0	4.15	E-BC16	SR	GN	GN	
		Bulldozer Power Shovel	SDK04023ZZ	6	1st	95.0	2.5	3.7	BF-K1	HB	Cr	Fe	6209-31-2400
					2nd	95.0	2.2	4.0	T1-K1-IC	HB	Cr	Fe	
					Oil	95.0	4.0	4.15	E-BC16	SR	Cr	Fe	
6D95 SA6D95 6D95	4,890	Bulldozer Power Shovel	SDK04019ZZ	6	1st	95.0	2.0	4.0	BF	CR	Cr	Fe	6204-31-2202
					2nd	95.0	2.0	4.0	T1	CR	Fe	Fe	
					Oil	95.0	4.0	4.15	E-BC16	SR	Cr	Fe	
			SDK04024ZY	6	1st	95.0	2.2	4.0	BF-K2	CR	Cr	Fe	6202-32-2200
					2nd	95.0	2.0	4.0	T1	CR	Fe	Fe	
					Oil	95.0	4.0	4.15	E-BC16	SR	GN	GN	
SAA4D95LE	3,259	Wheel Loader	SDK04041ZZ (TCC-N-0271)	4	1st	95.0	2.5	3.5	BF-K1	SR	GN	GN	6271-31-2300
					2nd	95.0	2.0	4.0	TUC	CR	Cr	Fe	
					Oil	95.0	3.0	3.25	E-BC16	SR	GN	GN	

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EUROPE

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
S6D102	5,900	Bulldozer Power Shovel	SDK04027ZX	6	1st	102.0	2.875	4.05	BF-K1	SR	Cr	Fe	6732-31-2300
					2nd	102.0	2.37	4.2	T1-IB	CR	Fe	Fe	6735-31-2030
					Oil	102.0	4.0	4.35	E-BC16	SR	GN	GN	
S4D105	4,330	Bulldozer Power Shovel	SDK04009ZZ	4	1st	105.0	3.0	4.2	BF	HB	Cr	Fe	6136-31-2030(cyl)
					2nd	105.0	2.5	4.5	T1-IC	CR	Fe	Fe	6136-31-2010(cyl)
					Oil	105.0	5.0	4.7	E-BC3	CR	Cr	Fe	
			SDK04033ZZ	4	1st	105.0	3.0	4.2	BF	HB	Cr	Fe	6130-31-2202(cyl)
					2nd	105.0	3.0	4.2	T1	CR	Cr	Fe	6130-32-2202(cyl)
					Oil	105.0	5.0	4.65	E-BC16	CR	Cr	Fe	6130-32-2302(cyl) 6130-32-2301(cyl)
S4D105(NEW)	4,330	Bulldozer Power Shovel	SDK04010ZZ	4	1st	105.0	3.0	4.2	BF-K1	HB	Cr	Fe	6130-31-2200
					2nd	105.0	2.5	4.5	T1-IC	CR	Fe	Fe	6130-31-2201
					Oil	105.0	5.0	4.7	E-BC3	CR	Cr	Fe	6131-32-2302 6131-31-2301(cyl) 6131-32-2301(cyl)
6D105 S6D105	6,490	Bulldozer Power Shovel	SDK04016ZX	6	1st	105.0	3.0	3.85	BF-K1	SR	Cr	Fe	6137-31-2040
					2nd	105.0	2.5	4.5	T1-K2	CR	Cr	Fe	6137-31-2032
					Oil	105.0	5.0	4.7	E-BC3	CR	Cr	Fe	6137-31-2030
			SDK04017ZZ	6	1st	105.0	3.0	4.2	BF	HB	Cr	Fe	6136-31-2010(cyl)
					2nd	105.0	2.5	4.5	T1-IC	CR	Fe	Fe	6136-31-2030(cyl)
					Oil	105.0	5.0	4.7	E-BC3	CR	Cr	Fe	
4D105 S4D105		Bulldozer Power Shovel	YDK04026ZZ	1	1st	105.0	2.984	4.375	BF-K1	HB	Cr	Fe	
					2nd	105.0	2.955	4.375	T1-K1-IC	HB	Cr	Fe	
					Oil	105.0	4.0	4.45	E-BC16	CR	Cr	Fe	
S4D106	4,411	Bulldozer Power Shovel	SDK04029ZZ	4	1st	106.0	2.5	3.7	BF-K2	SR	GN	GN	YM123900-22050
					2nd	106.0	2.0	4.4	T1	CR	Fe	Fe	
					Oil	106.0	3.0	3.25	E-BC16	SR	GN	GN	
S6D107	6,128	Bulldozer Power Shovel	SDK04038ZZ	6	1st	107.0	2.85	4.4	BF-K1	HB	Cr	Fe	6754-31-2010
					2nd	107.0	2.5	4.5	T1-RB	CR	Fe	Fe	
					Oil	107.0	3.5	4.15	E-BC16	CR	Cr	Fe	
6D108	7,150	Generator	SDK04020ZZ	6	1st	108.0	2.5	4.35	BF-K1	HB	Cr	Fe	6221-31-2200
					2nd	108.0	2.53	4.35	T1-K1-IC	HB	Cr	Fe	
					Oil	108.0	4.0	4.15	E-BC16	SR	Cr	Fe	
6D110 S6D110	7,130	Generator	SDK04021ZZ	6	1st	110.0	3.0	4.4	BF-K1	HB	Cr	Fe	6138-32-2200
					2nd	110.0	2.5	4.6	T1-K2	CR	Cr	Fe	6138-31-2020
					Oil	110.0	5.0	4.05	E-BC16	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
6D114 SAA6D114E 6CT(Cummins)	8,264	Bulldozer Power Shovel	SDK04039ZZ	6	1st	114.0	3.325	4.7	BF-K1-IC	CR	Cr	Fe	
					2nd	114.0	2.85	4.7	T1-K1-RC	CR	Fe	Fe	
					Oil	114.0	4.0	4.35	E-BC16	SR	GN	GN	
S4D120	7,240	Bulldozer Power Shovel	SDK04007ZZ	4	1st	120.0	3.5	4.8	BF	HB	Cr	Fe	6110-30-2301
					2nd	120.0	2.5	5.0	T1-IC	CR	Cr	Fe	6110-30-2302
					Oil	120.0	5.5	5.7	E-BC3	CR	Cr	Fe	6110-30-2303 6110-30-2401 6110-30-2402 6110-30-2403
SAA6D125E	11,040	Bulldozer	SDK04022ZX	6	1st	125.0	2.5	4.7	BF-K1	SR	GN	GN	6150-31-2032
					2nd	125.0	2.5	5.0	T1-K1-IC	HB	Cr	Fe	6150-31-2033
					Oil	125.0	4.0	4.35	E-BC16	SR	GN	GN	6150-32-2030 6154-31-2030 6251-31-2030
6D125			SDK04034ZX	6	1st	125.0	2.5	4.7	BF	SR	GN	GN	6150-31-2030
					2nd	125.0	2.0	5.0	T1-IC	HB	Cr	Fe	
					Oil	125.0	3.0	3.1	E-BC16	SR	GN	GN	
			SDK04035ZX	6	1st	125.0	2.5	5.0	BF-K1	HB	Cr	Fe	6151-31-2031
					2nd	125.0	2.0	5.0	T1-IC	HB	Cr	Fe	
					Oil	125.0	3.0	3.1	E-BC16	SR	GN	GN	
4D130	8,490	Bulldozer Power Shovel	SDK04011ZZ	4	1st	130.0	3.5	5.1	BF	HB	Cr	Fe	6114-30-2303
					2nd	130.0	2.5	5.4	T1-IC	CR	Cr	Fe	6114-30-2403(cyl)
					Oil	130.0	5.5	5.8	E-BC3	CR	Cr	Fe	
6D140	15,240	Generator	SDK04028ZZ	6	1st	140.0	2.4	5.4	BF-K1	HB	Cr	Fe	6211-31-2031
					2nd	140.0	2.4	5.4	T1-K1-IC	HB	Cr	Fe	
					Oil	140.0	4.0	4.15	E-BC16	SR	Cr	Fe	
6D155	19,260	Bulldozer	SDK04008ZZ	6	1st	155.0	4.0	6.4	BF-K1	HB	Cr	Fe	6138-31-2022
					2nd	155.0	3.5	6.2	T1-IC	HB	Cr	Fe	6128-31-2023
					Oil1	155.0	6.0	5.7	E-BC1	CR	Cr	Fe	6128-31-2033(cyl)
					Oil2	155.0	5.0	6.2	BC3	CR	Cr	Fe	
S6D155 SA6D155	19,260	Bulldozer	SDK04013ZZ	6	1st	155.0	3.68	6.06	BF-K1	HB	Cr	Fe	6128-31-2060
					2nd	155.0	3.55	6.06	T1-K1-IC	HB	Cr	Fe	6128-31-2070(cyl)
					Oil	155.0	4.75	5.0	E-BC16	CR	Cr	Fe	

● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
R06A	658	Flair Carol Scrum	SW520229ZZ (TCC-N-0701)	3	1st	64.0	1.0	2.1	BF-IB	SR	GN	GN	12140-55S00
					2nd	64.0	1.0	2.1	TUC	SR	Fe	Fe	
					Oil	64.0	2.0	1.95	NIFF-H	SR	GN	GN	
B1	1,138	Festiva	SWT20051ZZ	4	1st	68.0	1.2	2.45	BF	SR	Cr	Fe	B1Y0-11-SCO
					2nd	68.0	1.5	3.1	TUC	CR	Fe	Fe	
					Oil	68.0	3.0	2.95	NIFF-S	SR	Cr	Fe	
TB	1,169	Familia	SWT20009ZX	4	1st	70.0	2.0	2.7	BF	SR	GN	GN	0263-23-170
					2nd	70.0	2.0	3.1	TUC	CR	Fe	Fe	
					Oil	70.0	4.0	3.1	NIFF-S	SR	Cr	Fe	
PC	985	Familia	SWT20040ZZ	4	1st	70.0	1.5	3.1	BF	HB	Cr	Fe	8693-23-130
					2nd	70.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	70.0	4.0	3.1	NIFF-S	SR	Cr	Fe	
B3	1,324	Familia Festiva	SWT20052ZZ	4	1st	71.0	1.2	2.47	BF	SR	Cr	Fe	B3Y0-11-SCOA B3Y1-11-SCO
					2nd	71.0	1.5	3.1	TUC	CR	Fe	Fe	
					Oil	71.0	3.0	2.92	NIFF-S	SR	Cr	Fe	
P3-VPS SKYACTIV-G1.3	1,298	Demio Mazda 2	SWT20105ZZ	4	1st	71.0	1.0	2.3	BF-IB	SR	GN	GN	P3Y1-11-SCOA
					2nd	71.0	1.0	2.3	TUC	SR	Fe	Fe	
					Oil	71.0	2.0	1.95	NIFF-H	SR	GN	GN	
TC	1,272	Familia 1300 Truck	SWT20026ZZ	4	1st	73.0	2.0	3.1	BF	HB	Cr	Fe	0324-23-175 0324-23-130
					2nd	73.0	2.0	3.1	TUC	CR	Fe	Fe	
					Oil	73.0	4.0	3.0	NIFF-S	SR	Cr	Fe	
			SWT20033ZZ	4	1st	73.0	1.5	3.1	BF	HB	Cr	Fe	8034-23-130 8034-23-130A
					2nd	73.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	73.0	4.0	3.0	NIFF-S	SR	Cr	Fe	
JF	1,997	Luce	SWT20079ZZ	V6	1st	74.0	1.5	2.85	BF	SR	Cr	Fe	JFY1-11-SCO
					2nd	74.0	1.5	3.4	TUC	CR	Fe	Fe	
					Oil	74.0	4.0	3.0	NIFF-S	SR	Cr	Fe	
ZJ-VEN	1,348	Demio	SWT20083ZZ	4	1st	74.0	1.0	2.45	BF-IB	SR	Cr	Fe	ZJY4-11-SCO
					2nd	74.0	1.0	2.5	TUC	SR	Fe	Fe	
					Oil	74.0	2.0	2.2	NIFF-H	SR	GN	GN	
ZJ-VE	1,348	Demio Mazda2	SWT20100ZZ	4	1st	74.0	1.2	2.45	BF-IB	SR	Cr	Fe	ZJY1-11-SCO
					2nd	74.0	1.2	2.9	TUC	CR	Fe	Fe	
					Oil	74.0	2.5	2.45	NIFF-H	SR	Cr	Fe	
UA UB	1,484	T1500 Craft	SCT20010ZZ	4	1st	75.0	2.5	3.3	T1	CR	Cr	Fe	0107-11-999
					2nd	75.0	2.5	3.3	TUC	CR	Fe	Fe	
					Oil	75.0	4.0	3.3	BC1	CR	Cr	Fe	
K8-DE	1,844	MX-3 Eunos 500 MS-6 Anfini	SWT20067ZZ	V6	1st	75.0	1.5	2.7	BF	SR	GN	GN	K8Y1-11-SCOA
					2nd	75.0	1.5	3.2	TUC	CR	Fe	Fe	
					Oil	75.0	3.0	2.55	NIFF-S	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
Z5-DE	1,489	Familia	SWT20074ZZ	4	1st	75.3	1.0	2.7	BF	SR	GN	GN	Z5Y0-11-SCO
					2nd	75.3	1.2	3.2	TUC	CR	Fe	Fe	
					Oil	75.3	2.5	2.55	NIFF-S	SR	GN	GN	
UC	1,415	Familia Bongo	SWT20036ZZ	4	1st	77.0	1.5	2.85	BF	SR	Cr	Fe	8569-23-130
					2nd	77.0	1.5	3.2	T1	CR	Fe	Fe	
					Oil	77.0	4.0	3.05	NIFF-S	SR	Cr	Fe	
E3	1,296	Familia Mazda 323	SWT20037ZZ	4	1st	77.0	1.2	3.25	BF	SR	Cr	Fe	E301-23-130
					2nd	77.0	1.5	3.2	TUC	CR	Cr	Fe	E301-23-130A
					Oil	77.0	4.0	3.05	NIFF-S	SR	GN	GN	
E5	1,490		SWT20045ZZ	4	1st	77.0	1.5	2.9	BF	SR	GN	GN	E302-23-130A
					2nd	77.0	2.0	3.3	TUC	CR	Fe	Fe	
					Oil	77.0	4.0	3.05	NIFF-S	SR	GN	GN	
VB	1,796	Luce (626) Ford Courier	SWT20025ZZ	4	1st	78.0	1.5	3.6	T1	CR	Cr	Fe	0290-23-130
					2nd	78.0	1.5	3.6	TUC	CR	Fe	Fe	0494-23-130
					Oil	78.0	4.0	3.05	NIFF-S	SR	Cr	Fe	3763-23-130 0290-23-131
NA(NEW)	1,796	Luce 1800 Capella (626) Bongo Pick UP Van	SWT20035ZZ	4	1st	78.0	1.2	3.6	BF	HB	Cr	Fe	8170-23-130
					2nd	78.0	1.5	3.6	TUC	CR	Fe	Fe	8170-23-130A
					Oil	78.0	4.0	3.05	NIFF-S	SR	Cr	Fe	8658-23-130 H604-23-130
NA-2	1,586	Luce B1600 Pick up Truck	SWT20049ZZ	4	1st	78.0	1.5	3.1	BF	SR	GN	GN	H617-23-130
					2nd	78.0	2.0	3.6	TUC	CR	Fe	Fe	
					Oil	78.0	4.0	3.05	NIFF-S	SR	GN	GN	
B6T B6-ME B6-ZE	1,597	Familia Van Capella Cargo Van Familia Wagon	SWT20060ZZ	4	1st	78.0	1.5	3.1	BF	SR	GN	GN	B6Y0-11-SCOA
					2nd	78.0	1.5	3.4	TUC	CR	Fe	Fe	
					Oil	78.0	4.0	3.0	NIFF-S	SR	GN	GN	
		Capella Familia Van	SWT20063ZZ	4	1st	78.0	1.5	3.05	BF-IB	SR	Cr	Fe	B6Y3-11-SCOA
					2nd	78.0	1.5	3.4	TUC	CR	Fe	Fe	
					Oil	78.0	3.0	3.05	NIFF-S	SR	GN	GN	
ZL-DE	1,498	Familia Familia S Wagon	SWT20080ZZ	4	1st	78.0	1.2	2.65	BF	SR	Cr	Fe	ZLY0-11-SCO
					2nd	78.0	1.5	3.2	TUC	CR	Fe	Fe	
					Oil	78.0	3.0	3.0	NIFF-S	SR	Cr	Fe	
ZY-VE	1,498	Axela Demio Mazda2	SWT20087ZZ	4	1st	78.0	1.2	2.45	BF-IB	SR	Cr	Fe	ZYY1-11-SCO
					2nd	78.0	1.2	3.3	TUC	CR	Fe	Fe	ZYY2-11-SCO
					Oil	78.0	2.5	2.45	NIFF-H	SR	GN	GN	
ZMD ZM-DE	1,598	Familia Mazda3	TCC-Q-0745	4	1st	78.0	1.2		BF-IB	SR	GN	GN	ZMY0-11-SCO
					2nd	78.0	1.5		TUC	CR	Fe	Fe	
					Oil	78.0	3.0		NIFF-S	SR	GN	GN	

DAIHATSU
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DAEWOO
HYUNDAI
KIA
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Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
VC	1,769	Luce Van Deluxe 1800 Cosmo	SWT20030ZZ	4	1st	80.0	2.0	3.6	BF	HB	Cr	Fe	0453-23-130B 3975-23-130
					2nd	80.0	2.0	3.6	TUC	CR	Fe	Fe	
					Oil	80.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
MA(NEW)	1,995	Luce (929L) Cosmo (121L)	SWT20031ZZ	4	1st	80.0	1.2	3.45	BF	SR	Cr	Fe	8682-23-130
					2nd	80.0	1.5	3.6	TUC	CR	Fe	Fe	8682-23-130A
VC(NEW)	1,769	Capella (626) Ford Courier			Oil	80.0	4.0	3.25	NIFF-S	SR	Cr	Fe	D97Z-6149 HE18-23-130
MA VB(Bore up)	1,970	B2000 626 (2000) Cosmo	SWT20042ZZ	4	1st	80.0	1.5	3.45	BF	SR	Cr	Fe	HE05-23-130
					2nd	80.0	2.0	3.6	TUC	CR	Fe	Fe	
					Oil	80.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
F6	1,587	Capella	SWT20054ZZ	4	1st	81.0	1.5	3.1	BF	SR	GN	GN	F601-23-130 F601-23-130A
					2nd	81.0	1.5	3.5	TUC	CR	Fe	Fe	
					Oil	81.0	4.0	3.05	NIFF-S	SR	GN	GN	
VA	1,985	E2000 Titan F2000 Bus	SCT20012ZZ	4	1st	82.0	2.5	3.6	T1	CR	Cr	Fe	0164-11-999
					2nd	82.0	2.5	3.6	T1	CR	Fe	Fe	
					Oil	82.0	4.5	3.6	BC16	CR	Cr	Fe	
0552 VA	1,985	Titan G2000	SWT20021ZZ	4	1st	82.0	2.0	3.6	BF	HB	Cr	Fe	1352-23-130 0552-23-180 0552-23-190
					2nd	82.0	2.0	3.6	T1	CR	Fe	Fe	
					Oil	82.0	4.5	3.3	NIFF-S	SR	Cr	Fe	
BP01 BP05 BP05-4W BP05-VE	1,839	Familia Eunos 100 Lantis Roadstar	SWT20066ZZ	4	1st	83.0	1.5	3.3	BF-IB	SR	GN	GN	BPY1-11-SCO
					2nd	83.0	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	83.0	3.0	2.8	NIFF-S	SR	GN	GN	
FS FS-DE	1,991	Capella MPV MS6 Cronos	SWT20078ZZ	4	1st	83.0	1.2	3.1	BF-IB	SR	GN	GN	FSY2-11-SCO
					2nd	83.0	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	83.0	3.0	3.2	NIFF-S	SR	Cr	Fe	
L8-DE L8-VE	1,798	Mazda5 Mazda6 MX-5 Miata Premacy	SWT20101ZZ	4	1st	83.0	1.2	2.85	BF	SR	Cr	Fe	L8Y1-11-SCOA
					2nd	83.0	1.2	3.3	TUC	CR	Fe	Fe	
					Oil	83.0	2.5	2.7	NIFF-H	SR	Cr	Fe	
PE-VPS SKYACTIV-G 2.0	1,998	CX-3 CX-5 Mazda 3 Mazda 6 MX-5 Miata	SWT20102ZZ	4	1st	83.5	1.0	2.5	BF-IB	SR	GN	GN	PEY1-11-SCO
					2nd	83.5	1.0	2.5	TUC	SR	Fe	Fe	
					Oil	83.5	2.0	2.45	NIFF-H	SR	Cr	Fe	
		CX-30 CX-3 CX-5 Mazda 3	SWT20102ZX (TCC-R-0822)	4	1st	83.5	1.0	2.5	BF-IB	SR	GN	GN	PEY5-11-SCO
					2nd	83.5	1.0	2.5	TUC	SR	Fe	Fe	
KL-DE KL-G4	2,496	MX6 MS8 Eunos 800	SWT20073ZZ	V6	Oil	83.5	2.0	2.25	NIFF-H	SR	GN	GN	
					1st	84.5	1.5	3.05	BF	SR	Cr	Fe	
					2nd	84.5	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	84.5	3.0	2.9	NIFF-S	SR	Cr	Fe	KLY1-11-SCO KLY2-11-SCO

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
F8-DE	1,789	Capella Capella Wagon Eunos 300	SWT20048ZZ	4	1st	86.0	1.5	3.25	BF	SR	Cr	Fe	F801-23-130
					2nd	86.0	1.5	3.8	TUC	CR	Fe	Fe	
					Oil	86.0	4.0	3.2	NIFF-S	SR	Cr	Fe	
FE-DE	1,998	Luce Eunos 300 Bongo Capella Wagon	SWT20065ZZ	4	1st	86.0	1.5	3.1	BF	SR	GN	GN	F2Y1-11-SCO
					2nd	86.0	1.5	3.8	TUC	CR	Fe	Fe	F2Y2-11-SCO
					Oil	86.0	4.0	3.25	NIFF-S	SR	GN	GN	F8Y1-11-SCO
L3-VE	2,260	Atenza MPV Mazda3 Mazda5 Mazda6 B2300 Tribute	SWT20090ZZ	4	1st	87.5	1.2	2.7	BF-IB	SR	GN	GN	L3Y1-11-SCO
					2nd	87.5	1.2	3.4	TUC	CR	Fe	Fe	L3Y6-11-SCO
					Oil	87.5	2.5	2.6	NIFF-S	SR	GN	GN	L3Y3-11-SCO
LF-VE	1,998	Atenza Axela	SWT20089ZZ	4	1st	87.5	1.2	2.85	BF	SR	Cr	Fe	LFY1-11-SCO
					2nd	87.5	1.2	3.4	TUC	CR	Fe	Fe	LFY1-82-SC2B
					Oil	87.5	2.5	2.8	NIFF-S	SR	Cr	Fe	
L5-VE	2,488	Atenza Atenza Sports	SWT20097ZZ	4	1st	89.0	1.2	2.9	BF-IB	SR	GN	GN	L5Y3-11-SCO
					2nd	89.0	1.2	3.8	TUC	CR	Fe	Fe	
					Oil	89.0	2.5	2.45	NIFF-H	SR	GN	GN	
SKYACTIV-G2.5	2,488	CX-5 CX-8 CX-30 Mazda3 Mazda6	SWT20103ZZ (TCC-Q-0742)	4	1st	89.0	1.0	2.7	BF-IB	SR	GN	GN	PYY4-11-SCO
					2nd	89.0	1.0	2.7	TUC-RB	SR	Fe	Fe	
					Oil	89.0	2.0	2.25	NIFF-H	SR	GN	GN	
SKYACTIV-G2.5T	2,488	CX-9 Mazda6	SWT20104ZZ (TCC-Q-0784)	4	1st	89.0	1.2	2.7	BF-IB	SR	GN	GN	PYY3-11-SCO
					2nd	89.0	1.0	2.7	TUC	SR	Fe	Fe	
					Oil	89.0	2.0	2.25	NIFF-H	SR	GN	GN	
U	2,983	B3000 Valcan V6	SWT20075ZZ	V6	1st	89.0	1.5	3.45	BF	SR	Cr	Fe	ZZMD-23-130
					2nd	89.0	1.5	3.7	TUC	CR	Fe	Fe	
					Oil	89.0	4.0	3.2	NIFF-S	SR	Cr	Fe	
JE JE48 JE-ZE27	2,954	MPV Centier Luce	SWT20062ZZ	V6	1st	90.0	1.5	3.3	BF	SR	GN	GN	JEY1-11-SCO
					2nd	90.0	1.5	3.8	TUC	CR	Fe	Fe	
					Oil	90.0	4.0	3.25	NIFF-S	SR	GN	GN	
G6	2,606	MPV Proceed	SWT20064ZZ	4	1st	92.0	1.5	3.3	BF-IB	SR	Cr	Fe	G601-11-SCOA
					2nd	92.0	1.5	4.1	TUC	CR	Fe	Fe	
					Oil	92.0	4.0	3.2	NIFF-S	SR	Cr	Fe	
A	2,298	B2300	SWT20071ZZ	4	1st	96.0	1.5	4.0	BF	CR	Cr	Fe	ZZM0-23-130
					2nd	96.0	1.5	4.0	TUC	CR	Fe	Fe	ZZM9-23-130
					Oil	96.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
C	2,507	B2500	SWT20076ZZ	4	1st	96.0	1.5	4.0	BF	CR	Cr	Fe	ZZP0-23-130
					2nd	96.0	1.5	4.0	TUC	CR	Fe	Fe	
					Oil	96.0	3.0	3.45	NIFF-S	SR	Cr	Fe	
XS	4,016	B4000 Cologne V6	SWT20072ZZ	V6	1st	100.4	1.6	4.0	BF	CR	Cr	Fe	ZZM2-23-130
					2nd	100.4	1.75	4.0	TUC	CR	Fe	Fe	ZZMB-23-130
					Oil	100.4	3.5	3.15	NIFF-S	SR	Cr	Fe	ZZP2-23-130

● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
S5-DPTS S5-DPTR SKYACTIV-D1.5	1,497	Axela Demio CX-3	SDT20095ZZ	4	1st	76.0	1.75	2.25	BF-IB	SR	GN	GN	S5Y1-11-SCO
					2nd	76.0	1.0	2.3	T1	SR	GN	GN	
					Oil	76.0	2.0	2.49	E-BC16	SR	GN	GN	
PN	1,720	Familia Diesel	SDT20070ZZ	4	1st	78.0	2.0	2.9	BF	SR	GN	GN	PN11-11-SCO
					2nd	78.0	1.5	3.2	T1-IB	CR	Cr	Fe	PNY2-11-SCO
					Oil	78.0	3.0	3.25	E-BC16	SR	GN	GN	
R2	2,184	Bongo Brawny Bongo Van Truck	SDT20041ZX	4	1st	86.0	2.0	3.05	BF-IB	SR	Cr	Fe	R201-23-130B
					2nd	86.0	2.0	3.6	T1-IC	CR	Fe	Fe	R201-23-130C
					Oil	86.0	4.0	4.15	E-BC16	SR	GN	GN	
RFX	1,998	Capella	SDT20055ZZ	4	1st	86.0	2.0	3.1	BF-K3	SR	GN	GN	RF01-23-130
					2nd	86.0	2.0	3.6	T1-IC	CR	Cr	Fe	RFY0-11-SCOD
					Oil	86.0	4.0	4.35	E-BC16	SR	GN	GN	
			SDT20068ZZ	4	1st	86.0	2.0	3.1	BF-K3	SR	GN	GN	RFY0-11-SCOF
					2nd	86.0	2.0	3.6	T1-IC	CR	Cr	Fe	
					Oil	86.0	3.0	3.25	E-BC16	SR	GN	GN	
R2(NEW)	2,184	Bongo	SDT20059ZY	4	1st	86.0	2.0	3.05	BF-IB	SR	Cr	Fe	R2B6-11-SCO
					2nd	86.0	2.0	3.6	T1-IC	CR	Cr	Fe	
					Oil	86.0	3.0	3.05	E-BC16	SR	GN	GN	
SKYACTIV-D2.2	2,188	CX-5 Atenza	SDT20091ZZ	4	1st	86.0	2.0	2.7	BF-IB	SR	GN	GN	SHY1-11-SCO
					2nd	86.0	1.5	2.7	T1-IB	SR	GN	GN	
					Oil	86.0	2.0	2.75	E-BC16	SR	GN	GN	
R2D	2,184	Bongo	SDT20084ZZ	4	1st	86.0	2.0	3.1	BF-K2	SR	GN	GN	R2Y2-11-SCO
					2nd	86.0	2.0	3.6	T1-IC	CR	Cr	Fe	
					Oil	86.0	3.0	3.0	E-BC16	SR	GN	GN	
L3-VDT	2,260	CX-7 Mazda3 Mazda6 Mazda Speed3 Mazda Speed6	SDT20099ZZ	4	1st	87.5	1.5	3.1	BF	SR	GN	GN	L3Y4-11-SCO
					2nd	87.5	1.5	3.7	TUC	CR	Fe	Fe	
					Oil	87.5	2.0	2.75	E-BC16	SR	GN	GN	
XA	2,552	E2500 EXA32S Parkins EXA33S EXA35S	SCT20016ZZ	4	1st	88.9	2.383	3.5	BF	HB	Cr	Fe	0559-23-206
					2nd	88.9	2.383	3.5	T1-IC	HB	Fe	Fe	0559-23-207
					3rd	88.9	2.383	3.5	T1-IC	HB	Fe	Fe	0636-23-206
					Oil 1	88.9	4.763	3.5	BC3	HB	Cr	Fe	0636-23-207
					Oil 2	88.9	4.763	3.5	C1	HB	Fe	Fe	0636-23-210

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
S2	2,209	Luce (929L)	SDT20032ZX	4	1st	88.925	2.383	3.45	BF	SR	Cr	Fe	1456-23-206
XA(NEW)	2,522	Bongo Diesel			2nd	88.925	2.383	3.5	T1-IC	CR	Fe	Fe	
		LA4S			Oil	88.925	4.763	4.6	E-BC16	SR	GN	GN	
		BA25B BA259											
ZB XB EZA	4,052	T4100 Trader	SDT20034ZX	6	1st	92.025	2.383	3.45	BF	SR	Cr	Fe	V101-23-206
					2nd	92.025	2.383	3.6	T1-IC	CR	Cr	Fe	
					Oil	92.025	4.763	4.6	E-BC16	SR	GN	GN	
WLT	2,499	Bongo Bongo Friendee	SDT20061ZY	4	1st	93.0	2.5	3.5	BF-IB	SR	GN	GN	WLY1-11-SCO
					2nd	93.0	2.0	3.9	T1-IB	CR	Cr	Fe	
					Oil	93.0	3.0	3.25	E-BC16	SR	GN	GN	
WLC	2,499	BT-50	SDT20092ZZ	4	1st	93.0	2.0	3.3	BF-IB	SR	GN	GN	WLY6-11-SCO
					2nd	93.0	1.5	3.3	T1	CR	Cr	Fe	
					Oil	93.0	2.0	2.75	E-BC16	SR	GN	GN	
W9	2,849	BT-50	SDT20085ZZ	4	1st	95.0	2.5	3.75	BF-IB	HB	Cr	Fe	W9Y1-11-SCO
					2nd	95.0	2.0	3.9	T1-IC	CR	Cr	Fe	
					Oil	95.0	3.0	3.85	E-BC16	CR	Cr	Fe	
HA	2,977	Titan E3000	SDT20028ZX	4	1st	95.025	2.383	3.45	BF	SR	Cr	Fe	1363-23-206
					2nd	95.025	2.383	3.8	T1-IC	CR	Fe	Fe	SE01-23-206
					Oil	95.025	4.763	4.65	E-BC16	SR	GN	GN	SE01-23-130
WE(3.0L)	2,953	BT-50	SDT20093ZZ	4	1st	96.0	2.0	3.3	BF	SR	GN	GN	WEY1-11-SCO
					2nd	96.0	1.5	3.3	T1	SR	GN	GN	
					Oil	96.0	2.0	2.75	E-BC16	SR	GN	GN	
VS	2,956		SDT20082ZZ	4	1st	98.0	2.5	3.4	BF-IB	HB	Cr	Fe	VSY1-11-SCOD
					2nd	98.0	2.0	3.9	T1-IC	CR	Cr	Fe	
					Oil	98.0	3.0	3.25	E-BC16	SR	GN	GN	
SL	3,455	Titan Truck Titan Dump	SDT20044ZX	4	1st	100.0	2.5	3.65	BF-K2	SR	Cr	Fe	SL01-23-206
				2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe		
			Oil	100.0	4.5	4.6	E-BC16	SR	GN	GN			
			SDT20046ZX	4	1st	100.0	2.5	3.65	BF	SR	Cr	Fe	SL50-11-SCO
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	SL07-23-206
					Oil	100.0	4.5	4.6	E-BC16	SR	GN	GN	SLA1-11-SCO

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● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
2G10-2	359	Minica Super Deluxe Minica Sports	SBM30052ZZ	2	1st	62.0	2.5	2.6	BF-K2	HB	Cr	Fe	MD205535 MT205535
					2nd	62.0	2.5	2.8	P	CR	Fe	Fe	
					3rd	62.0	2.5	2.8	P	CR	Fe	Fe	
2G21	359	Minica F4	SWM30073ZZ	2	1st	62.0	1.5	2.8	BF	CR	Cr	Fe	MD016760 MD016765
					2nd	62.0	1.5	2.8	T1	CR	Fe	Fe	
					Oil	62.0	2.5	3.4	NIFF-S	SR	Cr	Fe	
R06A	658	Minicab	SWS20229ZZ (TCC-N-0701)	3	1st	64.0	1.0	2.1	BF-IB	SR	GN	GN	12140-55S00
					2nd	64.0	1.0	2.1	TUC	SR	Fe	Fe	
					Oil	64.0	2.0	1.95	NIFF-H	SR	GN	GN	
3G82	796	Minicab 800	SWM31067ZZ	3	1st	65.0	1.5	2.5	BF	SR	GN	GN	MD120081
					2nd	65.0	1.5	2.9	T1	CR	Cr	Fe	
					Oil	65.0	2.8	2.5	NIFF-S	SR	Cr	Fe	
4G82	1,061	CMC Varica Minicab	SWM31068ZZ	4	1st	65.0	1.5	2.5	BF	SR	GN	GN	
					2nd	65.0	1.5	2.9	T1	CR	Cr	Fe	
					Oil	65.0	2.8	2.5	NIFF-S	SR	Cr	Fe	
3G83	657	Minica Minicab Minica Toppo	SWM31144ZZ	3	1st	65.0	1.2	2.25	BF	SR	Cr	Fe	MD160199
					2nd	65.0	1.2	2.75	T1	CR	Fe	Fe	
					Oil	65.0	2.8	2.5	NIFF-S	SR	Cr	Fe	
			SWM31158ZZ	3	1st	65.0	1.0	2.25	BF-IB	SR	Cr	Fe	MD362974
					2nd	65.0	0.8	2.45	T1	HB	Fe	Fe	
					Oil	65.0	2.0	2.5	NIFF-H	SR	Cr	Fe	
4A31	1,094	Pajero Toppo	SWM31136ZZ	4	1st	66.0	1.0	2.25	BF	SR	Cr	Fe	
					2nd	66.0	1.2	2.9	T1	CR	Fe	Fe	
					Oil	66.0	2.5	2.75	NIFF-H	SR	GN	GN	
4G11-EC	1,244	Colt Lancer	SWM31061ZZ	4	1st	68.2	1.5	2.7	BF	SR	GN	GN	MD030360 MD031730 MD115495
					2nd	68.2	1.5	3.1	T1	CR	Fe	Fe	
					Oil	68.2	4.0	3.15	NIFF-S	SR	GN	GN	
4G11	1,244	Mirage Lancer Dodge Colt	SWM31026ZZ	4	1st	69.5	1.5	3.1	BF	CR	Cr	Fe	MD030350 MD031670
					2nd	69.5	1.5	3.1	T1	CR	Fe	Fe	
					Oil	69.5	4.0	3.2	NIFF-S	SR	Cr	Fe	
2G23	546	Minica 550 Minicab Wide 550	SWM31009ZZ	2	1st	70.0	1.5	3.1	BF	CR	Cr	Fe	MD019610
					2nd	70.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	70.0	2.5	3.05	NIFF-S	SR	Cr	Fe	
4G42	1,187	Lancer 1200 Colt	SWM31012ZZ	4	1st	71.0	2.0	3.3	BF	CR	Cr	Fe	MD010850 MD010735
					2nd	71.0	2.0	3.3	T1	CR	Fe	Fe	
					Oil	71.0	4.0	3.85	NIFF-S	SR	Cr	Fe	

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Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
4G13	1,298	Mirage Lancer	SWM31062ZY	4	1st	71.0	1.5	2.65	BF	SR	Cr	Fe	MD074687
					2nd	71.0	1.5	3.1	T1	CR	Fe	Fe	MD078543
					Oil	71.0	4.0	3.25	NIFF-S	SR	Cr	Fe	MD115490
			SWM31082ZX	4	1st	71.0	1.2	2.47	BF	SR	Cr	Fe	MD158908
					2nd	71.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	71.0	3.0	2.85	NIFF-H	SR	GN	GN	
			SWM31141ZZ	4	1st	71.0	1.2	2.5	BF	SR	GN	GN	MD335422
					2nd	71.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	71.0	2.8	2.55	NIFF-S	SR	GN	GN	
4G17	1,343	Mirage Colt	SWM31099ZZ	4	1st	72.2	1.2	2.5	BF	SR	GN	GN	MD165325
					2nd	72.2	1.5	3.1	T1	CR	Fe	Fe	
					Oil	72.2	3.0	2.85	NIFF-S	SR	GN	GN	
4G30	1,289	Galant Lancer	SWM30057ZZ	4	1st	73.0	2.0	3.3	BF	CR	Cr	Fe	
					2nd	73.0	2.0	3.3	T1	CR	Fe	Fe	
					Oil	73.0	4.0	3.0	NIFF-S	SR	Cr	Fe	
4G36	1,238	Pony Lancer	SWM31016ZZ	4	1st	73.0	1.5	3.3	BF	SR	Cr	Fe	MD009625
					2nd	73.0	1.5	3.3	T1	CR	Fe	Fe	MD115500
					Oil	73.0	4.0	3.0	NIFF-S	SR	Cr	Fe	
4G33	1,439	Galant Lancer Celeste Delica Fork Lift	SWM31024ZZ	4	1st	73.0	1.5	2.7	BF	SR	GN	GN	
					2nd	73.0	1.5	3.3	T1	CR	Fe	Fe	
					Oil	73.0	4.0	3.2	NIFF-S	SR	GN	GN	
4G12	1,410	Lancer Celeste Mirage Plymouth Champ	SWM31027ZZ	4	1st	74.0	1.5	3.3	BF	CR	Cr	Fe	MD030355
					2nd	74.0	1.5	3.3	T1	CR	Fe	Fe	MD012025
					Oil	74.0	4.0	3.3	NIFF-S	SR	Cr	Fe	MD012035 MD031700
4G31B	1,499	Mirage Galant	SWM31130ZZ	4	1st	74.5	1.5	2.85	BF	SR	Cr	Fe	MD107368
					2nd	74.5	1.5	3.2	T1	CR	Fe	Fe	
					Oil	74.5	4.0	3.2	NIFF-S	SR	Cr	Fe	
6G71	1,998	Debonaire Diamante Galant Σ	SWM31133ZZ	V6	1st	74.7	1.5	3.25	BF	SR	Cr	Fe	MD104889
					2nd	74.7	1.5	3.3	T1	CR	Fe	Fe	MD124452
					Oil	74.7	4.0	3.2	NIFF-S	SR	Cr	Fe	
3A90	999	Mirage Colt	SWM31168ZZ	3	1st	75.0	1.2	2.5	BF	SR	GN	GN	MN195612
3A91	1,124	Attrage			2nd	75.0	0.8	2.5	T1	SR	Fe	Fe	
3A92	1,193		SWM31170ZZ	3	Oil	75.0	2.0	1.95	NIFF-H	SR	GN	GN	
					1st	75.0	1.0	2.3	BF	SR	GN	GN	1110B699
					2nd	75.0	1.2	2.7	T1	CR	Fe	Fe	
					Oil	75.0	2.0	1.95	NIFF-H	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
4A91	1,499	Colt Colt Plus Lancer	SWM31174ZZ	4	1st	75.0	1.2	2.5	BF	SR	GN	GN	1110C722
					2nd	75.0	0.8	2.5	T1	SR	Fe	Fe	
					Oil	75.0	2.0	1.95	NIFF-H	SR	GN	GN	
4A92	1,590	Lancer Galant	SWM31185ZZ	4	1st	75.0	1.0	2.3	BF	SR	GN	GN	1110C488(cyl)
					2nd	75.0	1.2	2.7	T1	CR	Fe	Fe	
					Oil	75.0	2.0	1.95	NIFF-H	SR	GN	GN	
4G15	1,468	Mirage Libero Cargo Lancer Proton	SWM31063ZY	4	1st	75.5	1.5	2.85	BF	SR	Cr	Fe	MD074725
					2nd	75.5	1.5	3.3	T1	CR	Fe	Fe	MD078548
					Oil	75.5	4.0	3.25	NIFF-S	SR	Cr	Fe	MD104656
			SWM31076ZZ	4	1st	75.5	1.2	2.7	BF	SR	GN	GN	MD158549
					2nd	75.5	1.5	3.3	T1	CR	Fe	Fe	MD180804
					Oil	75.5	3.0	2.85	Niff-H	SR	GN	GN	
			SWM31126ZZ	4	1st	75.5	1.2	2.7	BF	SR	GN	GN	
					2nd	75.5	1.2	3.3	T1	CR	Fe	Fe	
					Oil	75.5	2.8	2.5	NIFF-S	SR	Cr	Fe	
			SWM31145ZZ	4	1st	75.5	1.2	2.7	BF	SR	GN	GN	MD333896
					2nd	75.5	1.5	3.3	T1	CR	Fe	Fe	MD332715
					Oil	75.5	2.8	2.5	NIFF-S	SR	Cr	Fe	MD331313
4G19	1,343	Colt	SWM31176ZZ	4	1st	75.5	1.0	2.7	BF	SR	GN	GN	MN119569
					2nd	75.5	1.2	2.7	TUC	CR	Cr	Fe	
					Oil	75.5	2.0	2.2	NIFF-H	SR	GN	GN	
2G24	548	Minica	SWM31064ZZ	2	1st	76.0	1.5	3.05	BF	SR	Cr	Fe	MD018280
					2nd	76.0	1.5	3.3	T1	CR	Cr	Fe	
					Oil	76.0	2.5	2.8	NIFF-S	SR	Cr	Fe	
4G18	1,584	Lancer	SWM31117ZZ	4	1st	76.0	1.2	2.7	BF	SR	GN	GN	MD349422
					2nd	76.0	1.5	3.1	TUC	CR	Fe	Fe	
					Oil	76.0	2.8	2.55	NIFF-S	SR	GN	GN	
4G18P	1,584	Proton Waja	SWM31127ZZ	4	1st	76.0	1.2	2.7	BF	SR	GN	GN	MD361983
					2nd	76.0	1.2	3.2	TUC	CR	Fe	Fe	MD361982
					Oil	76.0	2.5	2.55	NIFF-S	SR	GN	GN	
4G41	1,378	Galant Coupe FTO Delica	SWM30078ZZ	4	1st	76.5	2.0	3.5	BF	CR	Cr	Fe	MD010710
					2nd	76.5	2.0	3.5	T1	CR	Cr	Fe	MD010715
					Oil	76.5	4.0	3.6	NIFF-S	SR	Cr	Fe	MD011893
4G32	1,597	Colt Galant Σ Sapporo Lancer Celeste Mirage Delica	SWM31005ZZ	4	1st	76.9	2.0	3.5	BF	CR	Cr	Fe	MD000725
					2nd	76.9	2.0	3.5	T1	CR	Fe	Fe	MD004709
					Oil	76.9	4.0	3.8	NIFF-S	SR	Cr	Fe	MD004739
													MD004770
													MD005885
													MD007251
													MD008105
													MD106741
													MD110632

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
4G32B	1,597	Galant Σ Chariot Tredia Cardia	SWM31043ZZ	4	1st	76.9	1.5	3.1	BF	SR	Cr	Fe	MD012765 MD062387 MD093337 MD099430
					2nd	76.9	1.5	3.5	T1	CR	Fe	Fe	
					Oil	76.9	4.0	3.8	NIFF-S	SR	Cr	Fe	
2G25	783	Minica	SWM31066ZZ	2	1st	78.0	1.5	3.05	BF	SR	Cr	Fe	MD011810 MD083152
					2nd	78.0	1.5	3.3	T1	CR	Cr	Fe	
					Oil	78.0	2.5	2.8	NIFF-S	SR	Cr	Fe	
4G91	1,496	Mirage	SWM31150ZZ	4	1st	78.4	1.2	3.05	BF	SR	Cr	Fe	MD177113
					2nd	78.4	1.2	3.3	T1	CR	Fe	Fe	
					Oil	78.4	2.8	2.6	NIFF-S	SR	Cr	Fe	
6A12	1,998	Eterna Galant Diamante Proton Perdon	SWM31137ZZ	V6	1st	78.4	1.2	3.05	BF	SR	Cr	Fe	MD302644 MD189104
					2nd	78.4	1.2	3.5	T1	CR	Fe	Fe	
					Oil	78.4	2.8	2.6	NIFF-S	SR	Cr	Fe	
4G62 G62B	1,795	Galant Σ Sapporo Lancer	SWM31040ZZ	4	1st	80.6	2.0	3.5	BF	CR	Cr	Fe	MD040610 MD106736
					2nd	80.6	2.0	3.7	T1	CR	Fe	Fe	
					Oil	80.6	4.0	3.3	NIFF-S	SR	Cr	Fe	
4G37EC G62B 4G62T	1,755 1,795	Tredia Cordia Delica Star Galant Galant Σ	SWM31041ZZ	4	1st	80.6	1.5	3.45	BF	SR	Cr	Fe	MD040465 MD077113 MD154012
					2nd	80.6	1.5	3.7	T1	CR	Fe	Fe	
					Oil	80.6	4.0	3.3	NIFF-S	SR	Cr	Fe	
4G51	1,850	Galant	SWM31025ZX	4	1st	81.0	2.0	3.05	BF	SR	Cr	Fe	MD023060
					2nd	81.0	2.0	3.7	T1	CR	Cr	Fe	
					Oil	81.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
4G93	1,834	Galant Lancer Mirage Proton	SWM31079ZZ	4	1st	81.0	1.2	3.2	BF	SR	Cr	Fe	MD173206
					2nd	81.0	1.2	3.6	T1	CR	Fe	Fe	
4G92	1,597				Oil	81.0	2.8	2.7	NIFF-S	SR	Cr	Fe	
4G92	1,597	Mirage Lancer	SWM31085ZZ	4	1st	81.0	1.2	2.9	BF	SR	GN	GN	MD173211 MD357240 MD180348
					2nd	81.0	1.2	3.6	T1	CR	Cr	Fe	
					Oil	81.0	2.8	2.8	NIFF-S	SR	GN	GN	
6A13-S4	2,498	Legnum	SWM31163ZZ	V6	1st	81.0	1.2	3.2	BF	SR	Cr	Fe	MD336735 MD344094 MD344095
					2nd	81.0	1.2	3.6	T1	CR	Fe	Fe	
					Oil	81.0	2.8	2.7	NIFF-S	SR	Cr	Fe	
4G67	1,836	Galant Σ Eterna Eterna SAVA	SWM31058ZZ	4	1st	81.5	1.2	3.1	BF	SR	GN	GN	MD153602
					2nd	81.5	1.5	3.6	T1	CR	Cr	Fe	
					Oil	81.5	3.0	2.9	NIFF-S	SR	GN	GN	
4G94-S4	1,999	Lancer Pajero io	SWM31164ZZ	4	1st	81.5	1.2	2.7	BF-IB	SR	GN	GN	1110B098 1110B099 1110B100 1110B697
					2nd	81.5	1.2	3.4	TUC	CR	Fe	Fe	
					Oil	81.5	2.5	2.45	NIFF-H	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
4G61	1,595	Mirage Lancer	SWM31049ZZ	4	1st	82.3	1.2	3.1	BF	SR	GN	GN	MD133495
					2nd	82.3	1.5	3.8	T1	CR	Cr	Fe	
					Oil	82.3	3.0	2.85	NIFF-S	SR	GN	GN	
6G73	2,497	Sigma 25V Diamante	SWM31154ZZ	V6	1st	83.5	1.2	2.85	BF	SR	Cr	Fe	MD310257
					2nd	83.5	1.5	3.5	T1	CR	Fe	Fe	
					Oil	83.5	3.0	2.85	NIFF-S	SR	Cr	Fe	
6G73-GDI	2,497	Diamante	SWM31169ZZ	V6	1st	83.5	1.2	2.7	BF-IB	SR	GN	GN	MD370494
					2nd	83.5	1.2	3.2	TUC	CR	Cr	Fe	
					Oil	83.5	2.5	2.45	NIFF-H	SR	GN	GN	
4G52	1,995	Galant Σ Sapporo Celeste Jeep A57 A78 A115 A123 J58	SWM30074ZZ	4	1st	84.0	2.0	3.6	BF	HB	Cr	Fe	MD021010
					2nd	84.0	2.0	3.7	T1	CR	Cr	Fe	MD021035
					Oil	84.0	4.0	3.8	NIFF-S	SR	Cr	Fe	MD021070
													MD027010
4G63	1,997	Galant Σ Sapporo	SWM31013ZY	4	1st	85.0	2.0	3.1	BF	SR	GN	GN	MD040640
					2nd	85.0	2.0	3.7	T1	CR	Fe	Fe	MD040840
					Oil	85.0	4.0	3.25	NIFF-S	SR	Cr	Fe	MD041580
		Lancer Eclipse Chariot RVR	SWM31048ZZ	4	1st	85.0	1.2	3.1	BF	SR	GN	GN	MD133485
					2nd	85.0	1.5	3.8	TUC	CR	Cr	Fe	
					Oil	85.0	3.0	2.85	NIFF-S	SR	GN	GN	
		Galant Chariot	SWM31103ZZ	4	1st	85.0	1.2	3.1	BF-IB	SR	GN	GN	MD195810
					2nd	85.0	1.5	3.8	TUC	CR	Cr	Fe	MD313405
					Oil	85.0	2.8	2.55	NIFF-S	SR	GN	GN	
G63B	1,997	Galant Σ Starion	SWM31034ZZ	4	1st	85.0	1.5	3.05	BF	SR	Cr	Fe	MD088941
					2nd	85.0	1.5	3.8	T1	CR	Cr	Fe	
					Oil	85.0	4.0	3.15	NIFF-S	SR	Cr	Fe	
G63B G63B T/C	1,997	Galant Σ Chariot Pajero	SWM31044ZZ	4	1st	85.0	1.5	3.5	BF	SR	Cr	Fe	MD100467
					2nd	85.0	1.5	3.8	T1	CR	Fe	Fe	MD105516
					Oil	85.0	4.0	3.3	NIFF-S	SR	Cr	Fe	MD147835
4G63	1,997	Savrin	SWM31143ZZ	4	1st	85.0	1.2	3.1	BF-IB	SR	GN	GN	MN149594
					2nd	85.0	1.2	3.5	TUC	CR	Fe	Fe	
					Oil	85.0	2.0	2.3	NIFF-H	SR	Cr	Fe	
4G63K	1,997	Galant Σ Eterna Eterna SAVA Chariot	SWM31071ZZ	4	1st	85.0	1.2	3.1	BF-IB	SR	GN	GN	MD195850
					2nd	85.0	1.5	3.8	TUC	CR	Cr	Fe	
					Oil	85.0	3.0	2.55	NIFF-S	SR	GN	GN	

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Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
4B10	1,798	Galant Fortis Lancer	SWM31178ZZ	4	1st	86.0	1.2	3.05	BF	SR	Cr	Fe	1110A436
4B11	1,998	Lancer Evolution Galant Fortis			2nd	86.0	1.2	3.6	TUC	CR	Fe	Fe	
					Oil	86.0	2.0	2.45	NIFF-H	SR	Cr	Fe	
G64B 4G64	2,350	Delica Wagon Chariot Air Treck	SWM31037ZZ	4	1st	86.5	1.5	3.45	BF	SR	Cr	Fe	MD085346
					2nd	86.5	1.5	3.8	TUC	CR	Fe	Fe	MD103580
					Oil	86.5	4.0	3.3	NIFF-S	SR	Cr	Fe	
4G64K	2,350	Delica Wagon	SWM31072ZZ	4	1st	86.5	1.2	3.1	BF-IB	SR	Cr	Fe	MD195872
					2nd	86.5	1.5	3.8	TUC	CR	Fe	Fe	
					Oil	86.5	3.0	2.55	NIFF-S	SR	Cr	Fe	
4G64	2,350	Galant	SWM31116ZZ	4	1st	86.5	1.2	3.1	BF-IB	SR	Cr	Fe	MD195828
					2nd	86.5	1.5	3.8	TUC	CR	Fe	Fe	MD194597
					Oil	86.5	2.8	2.55	NIFF-S	SR	Cr	Fe	
4G69S	2,378	Lancer Air Treck Galant Eclipse	SWM31161ZZ	4	1st	87.0	1.2	3.1	BF-IB	SR	GN	GN	1110A966
					2nd	87.0	1.2	3.4	TUC	CR	Fe	Fe	1110A967
					Oil	87.0	2.0	2.2	NIFF-H	SR	GN	GN	
420A	1,997	Eclipse	SWM31120ZZ	4	1st	87.5	1.2	3.45	BF	SR	Cr	Fe	M04741401
					2nd	87.5	1.2	4.0	T1	CR	Fe	Fe	
					Oil	87.5	3.0	2.9	NIFF-S	SR	Cr	Fe	
6B31	2,998	Outlander Pajero Sport	SWM31181ZZ	V6	1st	87.6	1.2	3.1	BF-IB	SR	GN	GN	1110B435
					2nd	87.6	1.0	2.95	T1	HB	Fe	Fe	
					Oil	87.6	2.0	2.4	NIFF-H	SR	Cr	Fe	
4G53	2,384	Jeep Canter Rosa	SWM31021ZZ	4	1st	88.0	2.0	3.8	BF	HB	Cr	Fe	MD025000
					2nd	88.0	2.0	4.1	T1	CR	Cr	Fe	MD026985
					Oil	88.0	4.0	3.3	NIFF-S	SR	Cr	Fe	
4B12	2,359	Lancer Delica D:5 Outlander	SWM31173ZZ	4	1st	88.0	1.2	3.05	BF-IB	SR	Cr	Fe	1110A822
					2nd	88.0	1.2	3.6	TUC	CR	Fe	Fe	
					Oil	88.0	2.0	2.45	NIFF-H	SR	Cr	Fe	
4G54T	2,555	Starion	SWM31039ZZ	4	1st	91.1	1.5	3.3	BF	SR	GN	GN	MD061258
					2nd	91.1	1.5	3.8	T1	CR	Cr	Fe	MD076170
					Oil	91.1	4.0	3.25	NIFF-S	SR	GN	GN	MD080598
													MD101895
													MD106752

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
4G54B	2,555	Jeep	SWM31047ZZ	4	1st	91.1	2.0	3.5	BF	HB	Cr	Fe	MD025089
		Debonair			2nd	91.1	2.0	3.8	T1	CR	Cr	Fe	MD026835
		Galant Σ			Oil	91.1	4.0	3.25	NIFF-S	SR	Cr	Fe	MD026960
		Sapporo											MD027140
		Dodge Challenger											MD107813 MD107818
6G72	2,972	Galant Σ	SWM31078ZZ	V6	1st	91.1	1.2	3.3	BF	SR	Cr	Fe	MD165949
		Pajero			2nd	91.1	1.5	3.8	T1	CR	Cr	Fe	MD301803
					Oil	91.1	3.0	2.85	NIFF-H	SR	GN	GN	MD329755 1110B180
		Galant Σ	SWM31080ZZ	V6	1st	91.1	1.5	3.25	BF	SR	Cr	Fe	MD104922
		Debonair			2nd	91.1	1.5	3.8	T1	CR	Cr	Fe	MD104939
					Oil	91.1	4.0	3.25	NIFF-S	SR	Cr	Fe	MD129548
6G72-S4	2,972	Galant GTO	SWM31177ZZ	V6	1st	91.1	1.2	3.3	BF	SR	GN	GN	MD374009
		Galant Σ			2nd	91.1	1.2	3.5	TUC	CR	Fe	Fe	
		Pajero Diamante			Oil	91.1	2.5	2.5	NIFF-H	SR	Cr	Fe	
6G72-S4(NEW)	2,972	Galant GTO	SWM31078ZY	V6	1st	91.1	1.2	3.3	BF	SR	GN	GN	1110A937
		Pajero			2nd	91.1	1.5	3.8	T1	CR	Cr	Fe	
		Diamante			Oil	91.1	3.0	2.85	NIFF-S	SR	GN	GN	
6G74	3,497	Debonair	SWM31121ZZ	V6	1st	93.0	1.5	3.45	BF-IB	SR	Cr	Fe	MD322783
					2nd	93.0	1.5	3.9	TUC	CR	Fe	Fe	MD300569
					Oil	93.0	3.0	3.0	NIFF-S	SR	Cr	Fe	
6G74-GDI	3,497	Pajero	SWM31121ZY	V6	1st	93.0	1.5	3.3	BF	SR	GN	GN	MD366688
		Challenger			2nd	93.0	1.5	3.9	TUC	CR	Fe	Fe	
					Oil	93.0	3.0	2.85	NIFF-S	SR	GN	GN	
6G74-GDI-1	3,497	Pajero	SWM31166ZZ	V6	1st	93.0	1.2	3.5	BF	SR	GN	GN	MN119685
					2nd	93.0	1.2	3.5	TUC	CR	Fe	Fe	
					Oil	93.0	2.5	2.6	NIFF-S	SR	GN	GN	
6G75	3,828	Pajero	SWM31148ZZ	V6	1st	95.0	1.2	3.5	BF-IB	SR	GN	GN	MN183867
					2nd	95.0	1.2	3.4	TUC	CR	Fe	Fe	1110A497
					Oil	95.0	2.0	2.55	NIFF-H	SR	GN	GN	1110B806 1110B571

● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
K3B		Combine Harvester Tractor	YDM30119ZZ (1cyl)	1	1st	68.0	2.5	2.8	BF	CR	Cr	Fe	MM433340
					2nd	68.0	2.5	3.0	T1	CR	Fe	Fe	
					3rd	68.0	2.5	2.75	TUC	CR	Fe	Fe	
					Oil	68.0	4.0	3.2	E-BC16	CR	Cr	Fe	
K4E		For Industrial Machine	YDM30112ZZ (1cyl)	1	1st	76.0	2.49	3.3	BF-K2	CR	Cr	Fe	MM431579
					2nd	76.0	2.0	3.3	T1-IC	CR	Fe	Fe	
					Oil	76.0	4.0	3.6	E-BC16	CR	Cr	Fe	
L2E L3E		For Industrial Machine	YDM31162ZZ (1cyl)	1	1st	76.0	2.0	3.1	BF-K2	HB	Cr	Fe	MM433152
					2nd	76.0	2.0	3.2	T1	CR	Fe	Fe	
					Oil	76.0	3.0	3.25	E-BC16	SR	GN	GN	
4D65	1,795	Mirage Colt C14A	SDM31090ZX	4	1st	80.6	2.0	3.05	BF-K2	SR	Cr	Fe	MD071206 MD127022 MD127017
					2nd	80.6	2.0	3.7	T1	CR	Cr	Fe	
					Oil	80.6	4.0	4.35	E-BC16	SR	GN	GN	
4D68NA	1,998	Galant Proton	SDM31104ZZ	4	1st	82.7	2.0	3.25	BF-K2	SR	Cr	Fe	MD197162
					2nd	82.7	2.0	3.5	TUC	CR	Cr	Fe	
					Oil	82.7	3.0	3.25	E-BC16	SR	GN	GN	
4D68T	1,998	Chariot	SDM31151ZZ	4	1st	82.7	2.0	3.1	BF-K2-IB	SR	GN	GN	MD197187
					2nd	82.7	2.0	3.5	T1-K2	HB	Cr	Fe	
					Oil	82.7	3.0	3.25	E-BC16	SR	GN	GN	
4DQ5	2,084	Canter Fork Lift FD15	SDM31010ZZ	4	1st	84.0	2.5	3.6	BF	HB	Cr	Fe	30615-51011 30617-51011
					2nd	84.0	2.0	3.6	T1	CR	Fe	Fe	
					Oil	84.0	4.0	4.0	E-BC3	CR	Cr	Fe	
4N15	2,442	All New Triton All New Pajero Sports	SDM31171ZZ	4	1st	86.0	2.0	2.9	BF-K2	SR	GN	GN	1110C712
					2nd	86.0	1.5	2.9	T1	SR	GN	GN	
					Oil	86.0	2.0	2.75	E-BC16	SR	GN	GN	
4D55T 4D56 4D56TDI	2,346 2,476	Galant Σ Galant Sapporo	SDM31038ZX	4	1st	91.1	2.5	3.25	BF-K2	SR	Cr	Fe	MD050390 MD103391 1110A561
					2nd	91.1	2.0	3.9	T1-K2	CR	Cr	Fe	
					Oil	91.1	4.0	4.35	E-BC16	SR	GN	GN	
4D56T	2,476	Strada Delica Wagon Space Gear Challenger	SDM31160ZZ	4	1st	91.1	2.5	3.3	BF-K2	SR	GN	GN	1110B977V T
					2nd	91.1	2.0	3.5	T1-K2	HB	Cr	Fe	
					Oil	91.1	3.0	3.25	E-BC16	SR	GN	GN	
4D55 4D56	2,346 2,476	Galant Σ	SDM31055ZX	4	1st	91.1	2.5	3.45	BF	SR	Cr	Fe	MD050395
					2nd	91.1	2.0	3.8	T1	CR	Cr	Fe	
					Oil	91.1	4.0	4.35	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
4DR5	2,659	Canter T96A T96B T200C T200F T210CT Jeep J24 J36 J44 J54 J24H Rosa B200 B210	SDM30075ZX	4	1st	92.0	2.5	3.45	BF-K2	SR	Cr	Fe	31617-02012
					2nd	92.0	2.0	3.9	T1	CR	Fe	Fe	31617-02013
					3rd	92.0	2.0	3.9	T1	CR	Fe	Fe	31617-05102
					Oil	92.0	4.5	4.6	E-BC16	SR	GN	GN	31617-05103
6DR5	3,983	Rosa T44 T44B Fork Lift FD60 Jupiter	SDM30076ZX	6	1st	92.0	2.5	3.45	BF-K2	SR	Cr	Fe	31717-12012
					2nd	92.0	2.0	3.9	T1	CR	Fe	Fe	31717-12013
					3rd	92.0	2.0	3.9	T1	CR	Fe	Fe	
					Oil	92.0	4.5	4.6	E-BC16	SR	GN	GN	
4DR52T-1	2,659	Canter	SDM31129ZZ	4	1st	92.0	2.35	3.45	BF-K1	SR	Cr	Fe	ME996069
					2nd	92.0	2.0	3.45	T1-IC	CR	Cr	Fe	
					Oil	92.0	4.0	4.35	E-BC16	SR	GN	GN	
S4E	2,609	Fork Lift	SDM30110ZZ	4	1st	94.0	2.5	4.0	BF-K2	HB	Cr	Fe	34417-11011
					2nd	94.0	2.0	4.0	T1	CR	Fe	Fe	
					Oil	94.0	4.5	4.45	E-BC3	HB	Cr	Fe	
S4S	3,331	For Industrial Machine Bulldozer	SDM30118ZZ	4	1st	94.0	2.5	3.3	BF-K2	SR	GN	GN	32A17-02010
					2nd	94.0	2.0	3.8	T1-IC	CR	Cr	Fe	
					Oil	94.0	4.0	4.25	E-BC16	SR	GN	GN	
6DS3	5,103	T652B B622	SDM31001ZZ	6	1st	95.0	3.0	3.9	BF-K2	HB	Cr	Fe	ME021855
					2nd	95.0	2.0	4.1	T1-IC	CR	Cr	Fe	ME023327
					Oil	95.0	4.5	4.2	E-BC3	CR	Cr	Fe	ME023327-02
4M40-NA 4DR7	2,835	Canter Pajero	SDM31095ZX	4	1st	95.0	2.35	3.45	BF-K1	SR	Cr	Fe	ME202342
					2nd	95.0	2.0	3.7	T1-IC	HB	Cr	Fe	ME202950
					Oil	95.0	4.0	4.15	E-BC16	SR	GN	GN	ME997256
4M40	2,835	Pajero	SDM31114ZZ	4	1st	95.0	2.306	3.45	BF-K1	SR	Cr	Fe	ME201522
					2nd	95.0	2.0	3.9	T1-IC	CR	Cr	Fe	ME202380
					Oil	95.0	4.0	4.15	E-BC16	SR	GN	GN	MD997894
4M40-TC 4M42	2,835	Pajero	SDM31140ZZ	4	1st	95.0	2.306	3.45	BF-K1	SR	Cr	Fe	ME202148
					2nd	95.0	2.0	4.1	T1-IC	CR	Cr	Fe	ME190317
					Oil	95.0	3.0	3.25	E-BC16	SR	GN	GN	ME993211
													ME993212
4P10	2,998	Canter	SDM31175ZZ	4	1st	95.8	2.35	3.5	BF-K1	SR	GN	GN	MK667801
					2nd	95.8	2.0	4.0	T1	HB	Fe	Fe	
					Oil	95.8	2.5	2.85	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
6DS7	5,430	Truck T653B T653BG T663C T663ZD FK102 Tractor T653ZR Bus B623B B623E	SDM31002ZZ	6	1st	98.0	3.0	4.0	BF-K2	HB	Cr	Fe	ME023333
					2nd	98.0	2.0	4.2	T1-IC	CR	Cr	Fe	ME023333-02
					Oil	98.0	5.0	4.8	E-BC3	CR	Cr	Fe	ME021861
													ME024409
4M41-T1	3,200	Pajero	SDM31149ZZ	4	1st	98.5	2.35	3.4	BF-K1	HB	Cr	Fe	ME203533
					2nd	98.5	1.5	3.5	T1-IB	SR	GN	GN	
					Oil	98.5	3.0	3.25	E-BC16	SR	GN	GN	
4M41-PUS	3,200	Pajero Sports	SDM31149ZY	4	1st	98.5	2.35	3.5	BF-K1	SR	GN	GN	1110B654
					2nd	98.5	1.5	3.5	T1-IB	SR	GN	GN	
					Oil	98.5	3.0	3.65	E-BC16	SR	GN	GN	
4D30	3,298	Truck FE111 · 121 · 211 Bus BE211 Rosa	SDM31014ZX	4	1st	100.0	3.0	3.65	BF-K2	SR	Cr	Fe	ME012010
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	ME012070
					Oil	100.0	5.0	4.95	E-BC16	SR	GN	GN	
4D31T	3,298	Canter	SDM31081ZX	4	1st	100.0	3.0	3.65	BF-K2	SR	Cr	Fe	ME997396
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	ME997398
					Oil	100.0	4.0	4.35	E-BC16	SR	GN	GN	ME012848
6D31T	4,948	Fighter	SDM31088ZX	6	1st	100.0	3.0	3.65	BF-K2	SR	Cr	Fe	ME999783
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	100.0	4.0	4.35	E-BC16	SR	GN	GN	
6D31	4,948	Fighter	SDM31102ZZ	6	1st	100.0	3.0	4.0	BF-K2	HB	Cr	Fe	
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	100.0	5.0	4.8	E-BC3	CR	Cr	Fe	
S6KT	6,380	For Industrial Machine	SDM30108ZX	6	1st	102.0	3.0	4.05	BF-K2	SR	Cr	Fe	34317-19010
					2nd	102.0	2.0	4.0	T1-K2	CR	Cr	Fe	
					Oil	102.0	4.0	4.15	E-BC16	SR	GN	GN	
4D34	3,907	Truck FE439	SDM31157ZZ	4	1st	104.0	3.0	4.2	BF	HB	Cr	Fe	ME997237
					2nd	104.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	104.0	4.0	4.15	E-BC16	SR	Cr	Fe	
4D34T	3,907	Canter Rosa Fighter	SDM31075ZX	4	1st	104.0	2.806	3.85	BF-K1	SR	Cr	Fe	ME997240
					2nd	104.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	104.0	4.0	4.4	E-BC16	SR	GN	GN	
6D34T	5,861	Truck	SDM31182ZX	6	1st	104.0	2.806	3.85	BF-K1	SR	Cr	Fe	ME996442
					2nd	104.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	104.0	4.0	4.4	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
4D32	3,567	Canter	SDM31098ZX	4	1st	104.0	3.0	3.9	BF-K2	SR	GN	GN	ME997318
					2nd	104.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	104.0	4.0	4.4	E-BC16	SR	GN	GN	
6D10	5,974	Truck	SDM31006ZZ	6	1st	105.0	3.0	4.2	BF-K2	HB	Cr	Fe	ME032190
6D11	6,754	T654B T654ZR			2nd	105.0	2.0	4.4	T1-IC	CR	Cr	Fe	ME032190-01
		FK103 KK103 Bus MK103H MM504			Oil	105.0	5.0	4.8	E-BC3	CR	Cr	Fe	ME032326
4D33	4,214	Canter	SDM31097ZX	4	1st	108.0	3.0	4.05	BF	SR	Cr	Fe	ME996378
					2nd	108.0	2.0	4.4	T1-IC	CR	Cr	Fe	
					Oil	108.0	4.0	4.4	E-BC16	SR	GN	GN	
4D35	4,561	Rosa Canter	SDM31118ZZ	4	1st	110.0	3.0	4.1	BF	SR	GN	GN	ME996628
					2nd	110.0	2.5	4.4	T1-IC	CR	Cr	Fe	ME995237
					Oil	110.0	4.0	4.35	E-BC16	SR	GN	GN	
			SDM31152ZZ	4	1st	110.0	3.0	3.85	BF-IB	SR	Cr	Fe	ME995214
					2nd	110.0	2.0	3.65	T1-IB	SR	Cr	Fe	
					Oil	110.0	4.0	4.15	E-BC16	SR	Cr	Fe	
6D14	6,557	Truck FK115 · 115H FK115J FK115K · 115DK T656ZR FM215 Bus MK115 · 115H MM115C	SDM31007ZX	6	1st	110.0	3.0	4.05	BF-K2	SR	Cr	Fe	ME032071
					2nd	110.0	2.5	4.4	T1-IC	CR	Cr	Fe	ME032260
					Oil	110.0	5.0	4.95	E-BC16	SR	GN	GN	ME032404 ME032458
			SDM31089ZX	6	1st	110.0	3.0	4.1	BF	SR	GN	GN	ME999952
					2nd	110.0	2.5	4.4	T1-IC	CR	Cr	Fe	
					Oil	110.0	4.0	4.35	E-BC16	SR	GN	GN	
6D14T	6,557	Bus MK115 · 115H MM115 · 515	SDM31122ZZ	6	1st	110.0	2.806	4.05	BF-K1	SR	Cr	Fe	ME997465
					2nd	110.0	2.5	4.0	T1-IC	CR	Cr	Fe	
					Oil	110.0	4.0	4.35	E-BC16	SR	GN	GN	
6DB	8,550	Truck T330 T330D T335 T370 T380 T383 T390 T410D T480 K100 4K100 4K120 Bus R470 AR470 AM480 MR410 MR420 MR430 MR490 MR510	SDM30005ZX	6	1st	110.0	3.5	4.1	BF	SR	GN	GN	30017-71002
					2nd	110.0	2.5	4.7	T1-IC	CR	Cr	Fe	30017-71003
					3rd	110.0	2.5	4.7	BI-UC	CR	Fe	Fe	30017-75002
					Oil	110.0	5.0	4.7	E-C1	CR	Cr	Fe	30017-75003

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Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
6D15	6,919	Fighter Aero Midi	SDM31073ZX	6	1st	113.0	3.0	4.05	BF-K2	SR	Cr	Fe	ME032403
					2nd	113.0	2.5	4.4	T1-IC	CR	Cr	Fe	ME072306
					Oil	113.0	5.0	4.95	E-BC16	SR	GN	GN	
6D15T	6,919	Truck FM316 FM216 M116・516	SDM31119ZZ	6	1st	113.0	2.806	4.05	BF-K1	SR	Cr	Fe	ME997466
					2nd	113.0	2.5	4.4	T1-IC	CR	Cr	Fe	ME999929
					Oil	113.0	4.0	4.35	E-BC16	SR	GN	GN	ME999954
4M50	4,899	Truck Canter	SDM31172ZZ	4	1st	114.0	2.806	4.1	BF-K1	SR	GN	GN	ME995590
					2nd	114.0	2.0	3.7	T1-IB	SR	GN	GN	ME993913
					Oil	114.0	4.0	4.35	E-BC16	SR	GN	GN	
4M51	5,249	Truck Canter	SDM31156ZZ	4	1st	118.0	3.0	4.1	BF	SR	GN	GN	ME995591
					2nd	118.0	2.0	4.1	T1	SR	GN	GN	ME995592
					Oil	118.0	4.0	4.4	E-BC16	SR	GN	GN	ME995593
6D16	7,545	Truck FK417 FK517	SDM31051ZX	6	1st	118.0	3.0	4.1	BF	SR	GN	GN	ME999955
					2nd	118.0	2.5	4.6	T1-IC	CR	Cr	Fe	ME999540
					Oil	118.0	4.0	4.55	E-BC16	SR	GN	GN	ME996229 ME996231
6D16T	7,545	Truck FK617A FK618	SDM31054ZX	6	1st	118.0	2.806	4.1	BF-K1	SR	GN	GN	ME997467
					2nd	118.0	2.5	4.6	T1-IC	CR	Cr	Fe	ME997999
					Oil	118.0	4.0	4.55	E-BC16	SR	GN	GN	ME999549
6D17		Truck Fighter Aero Midi	SDM31159ZZ	6	1st	118.0	2.806	4.1	BF-K1	SR	GN	GN	ME995563
					2nd	118.0	2.5	4.6	T1-IC	CR	Cr	Fe	ME995561 (cyl)
					Oil	118.0	4.0	4.4	E-BC16	SR	GN	GN	ME995535 ME995536 (cyl)
6M60T			SDM31107ZY	6	1st	118.0	2.806	4.1	BF-K1	SR	GN	GN	ME993728
					2nd	118.0	2.5	4.6	T1-IC	HB	Cr	Fe	ME993729 (cyl)
					Oil	118.0	4.0	4.35	E-BC16	SR	GN	GN	ME996593
N6M60T	7,545	Truck	SDM31186ZZ (TCC-Q-0746)	6	1st	118.0	2.806	4.1	BF-K1	SR	GN	GN	ME990062
					2nd	118.0	2.5	4.3	T1-IB	SR	GN	GN	ME990063
					Oil	118.0	3.0	3.25	E-BC16	SR	GN	GN	
D2700		For Industrial Machine	YDM31033ZZ	1	1st	118.0	3.0	4.6	BF	CR	Cr	Fe	MM332391
					2nd	118.0	2.5	4.6	T1-IC	CR	Cr	Fe	MM334038
					Oil	118.0	4.0	4.2	E-BC3	CR	Cr	Fe	
6M61	8,201	Fighter	SDM31106ZZ	6	1st	118.0	3.0	4.1	BF	SR	GN	GN	ME995562
					2nd	118.0	2.0	4.3	T1-IB	SR	GN	GN	ME995560 (cyl)
					Oil	118.0	4.0	4.35	E-BC16	SR	GN	GN	
6M61CNG	8,201	Truck CNG Fighter	SDM31123ZY	6	1st	118.0	2.5	3.9	BF	SR	GN	GN	ME993687
					2nd	118.0	2.0	4.3	TUC	HB	Cr	Fe	ME993688
					Oil	118.0	4.0	4.35	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
6D20 6D21	10,308	Truck NP117 FD217R K202 Bus MP117H	SDM31011ZZ	6	1st	125.0	4.0	5.0	BF-K3	HB	Cr	Fe	30917-01012
					2nd	125.0	3.0	5.3	T1-IC	CR	Cr	Fe	30917-01013
					Oil	125.0	6.0	5.6	E-BC3	CR	Cr	Fe	
		Truck NP11 7 FD117 K202 Bus MP117 MP517	SDM31023ZY	6	1st	125.0	3.306	5.4	BF-K1	HB	Cr	Fe	ME052145
					2nd	125.0	3.0	5.3	T1-IC	CR	Cr	Fe	
					Oil	125.0	6.0	5.6	E-BC3	CR	Cr	Fe	
		Bus	SDM31030ZZ	6	1st	125.0	3.0	5.2	BF	HB	Cr	Fe	ME052260
					2nd	125.0	3.0	5.3	T1-IC	CR	Cr	Fe	
					Oil	125.0	6.0	5.5	E-BC3	CR	Cr	Fe	
6DC2	9,955	Truck/T800H T810H T910Q T910K Bus/B800 JB800K B805K B805M B810K B815K	SDM30007ZZ	6	1st	130.0	4.0	5.0	BF-K2	HB	Cr	Fe	31117-00009
					2nd	130.0	3.0	5.3	T1-IC	CR	Cr	Fe	31117-02010
					Oil	130.0	6.0	5.5	E-BC3	CR	Cr	Fe	31117-70010
													ME062117
8DC2 8DC4 8DC7	13,273	Truck T931 T811 T910 FT102 FV112 Bus B910 B801	SDM30008ZY	V8	1st	130.0	4.0	5.0	BF-K2	HB	Cr	Fe	31217-02010
					2nd	130.0	3.0	5.4	T1-IC	CR	Cr	Fe	ME062100
					Oil	130.0	6.0	5.5	E-BC3	CR	Cr	Fe	
			SDM31020ZX	V8	1st	130.0	3.306	4.55	BF-K1	SR	Cr	Fe	ME062298
					2nd	130.0	3.0	5.3	T1-IC	CR	Cr	Fe	
					Oil	130.0	6.0	5.5	E-BC16	CR	Cr	Fe	
6D22 6D22T	11,149	Truck FFT318 FP318 Bus/HP118 MP518 Fork Lift	SDM31015ZX	6	1st	130.0	3.306	4.5	BF-K1	SR	GN	GN	30917-20010
					2nd	130.0	3.0	5.3	T1-IC	CR	Cr	Fe	ME052124
					Oil	130.0	6.0	5.5	E-BC16	CR	Cr	Fe	ME052787
6D24	11,945	Aero Star The Great	SDM31094ZX	6	1st	130.0	3.306	4.55	BF-K1	SR	Cr	Fe	ME151190
					2nd	130.0	3.0	4.7	T1-IB	SR	GN	GN	
					Oil	130.0	4.0	4.15	E-BC16	SR	Cr	Fe	
6D24T	11,945	Truck	SDM31105ZY	6	1st	130.0	3.306	4.5	BF-K1	SR	GN	GN	ME995636 (cyl)
					2nd	130.0	2.5	4.7	T1-IB	SR	GN	GN	
					Oil	130.0	4.0	4.35	E-BC16	SR	GN	GN	
6D22 6D22T2	11,149	Truck FP308 MP118 MP518	SDM31111ZX	6	1st	130.0	3.306	4.5	BF-K1	SR	GN	GN	ME052889
					2nd	130.0	3.0	5.3	T1-IC	CR	Cr	Fe	ME995467
					Oil	130.0	4.0	4.45	E-BC16	SR	GN	GN	ME350961
													ME993736
													ME996142
													ME996540
													ME996544 (cyl)

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
6D22 6D24	11,149 11,945	The Great	SDM31057ZX	6	1st	130.0	3.0	4.7	BF	SR	GN	GN	ME052966
					2nd	130.0	3.0	5.3	T1-IC	HB	Cr	Fe	ME999136(cyl)
					Oil	130.0	4.0	4.45	E-BC16	SR	GN	GN	ME995473 ME995465(cyl) ME996391
6R10	12,808	Super Great Aero Ace	SDM31183ZZ	6	1st	132.0	3.306	4.7	BF-K1	SR	GN	GN	MX901417
					2nd	132.0	2.5	4.75	T1-RC	HB	Cr	Fe	
					Oil	132.0	3.5	3.98	E-BC16	CR	Cr	Fe	
8DC6 8DC8	14,886	Truck FS313 NW Bus/B907N NA SA MS513 MS613	SDM31004ZZ	V8	1st	135.0	4.0	5.0	BF-K2	HB	Cr	Fe	31217-60012
					2nd	135.0	3.0	5.7	T1-IC	CR	Cr	Fe	ME062086
					Oil	135.0	6.0	5.5	E-BC3	CR	Cr	Fe	
8DC6 8DC81(NEW)	14,886	FT FJ FV	SDM31028ZZ	V8	1st	135.0	3.306	5.4	BF-K1	HB	Cr	Fe	ME062022
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	ME062246
					Oil	135.0	6.0	5.5	E-BC3	CR	Cr	Fe	
8DC91 8DC9T	16,031	Truck FU 11.5ton FV 10.75ton FT EW Bus MS	SDM31029ZX	V8	1st	135.0	3.306	4.75	BF-K1	SR	Cr	Fe	ME062018
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	ME062230
					3rd	135.0	3.0	5.5	B1-UC	CR	Cr	Fe	
					Oil	135.0	6.0	5.5	E-BC3	CR	Cr	Fe	
6D40-T	12,023	The Great Truck	SDM31056ZX	6	1st	135.0	3.306	4.75	BF-K1	SR	Cr	Fe	ME120536
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	ME121332
					Oil	135.0	4.0	4.35	E-BC16	SR	GN	GN	ME996132 (cyl)
8DC9T	16,031	Aero King Aero Queen The Great	SDM31087ZY	V8	1st	135.0	3.306	5.4	BF-K1	HB	Cr	Fe	ME090578
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	
					3rd	135.0	3.0	5.5	B1-UC	CR	Cr	Fe	
					Oil	135.0	4.0	4.35	E-BC16	SR	GN	GN	
6M70	12,882	Aero Star Super Great	SDM31115ZZ	6	1st	135.0	3.306	4.65	BF-K1	SR	Cr	Fe	ME995857
					2nd	135.0	2.5	4.7	T1-IB	SR	GN	GN	ME995855 (cyl)
					Oil	135.0	4.0	4.35	E-BC16	SR	GN	GN	
S6B		For Industrial Machine	YDM30106ZZ (1cyl)	1	1st	135.0	4.0	5.0	BF-K2	HB	Cr	Fe	36217-11010
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	
					Oil	135.0	6.0	5.5	E-BC3	CR	Cr	Fe	
S6B3		For Industrial Machine	SDM31180ZZ	1	1st	135.0	4.0	5.05	BF-K1	HB	Cr	Fe	
					2nd	135.0	3.1	5.5	T1-K3	CR	Cr	Fe	
					Oil	135.0	4.0	4.8	E-BC16	SR	Cr	Fe	
8DC10	16,752	The Great Aero Bus MS7 MS8	SDM31134ZZ	V8	1st	138.0	3.306	5.5	BF-K1	HB	Cr	Fe	ME065717
					2nd	138.0	3.0	5.5	T1-IC	CR	Cr	Fe	ME999510
					3rd	138.0	3.0	5.5	B1-TUC	CR	Cr	Fe	
					Oil	138.0	6.0	5.5	E-BC16	CR	Cr	Fe	
			SDM31139ZZ	V8	1st	138.0	3.306	5.5	BF-K1	HB	Cr	Fe	ME090582
					2nd	138.0	3.0	5.5	T1-IC	CR	Cr	Fe	ME997039
					3rd	138.0	3.0	5.5	B1-TUC	CR	Cr	Fe	
					Oil	138.0	4.0	4.35	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
8DC11	17,737	Aero Bus MS7 MS8 Super Great Truck	SDM31128ZZ	V8	1st	142.0	3.306	5.6	BF-K1	HB	Cr	Fe	30617-50111 ME090588
					2nd	142.0	3.0	5.7	T1-IC	CR	Cr	Fe	
					3rd	142.0	3.0	5.7	B1-TUC	CR	Cr	Fe	
					Oil	142.0	4.0	4.15	E-BC16	SR	Cr	Fe	
			SDM31165ZZ	V8	1st	142.0	3.306	5.6	BF-K1	HB	Cr	Fe	ME065607
					2nd	142.0	3.0	5.7	T1-IC	CR	Cr	Fe	
					3rd	142.0	3.0	5.7	B1-TUC	CR	Cr	Fe	
					Oil	142.0	5.0	5.3	E-BC16	CR	Cr	Fe	
8M20	20,089	The Great Aero Queen	SDM31138ZX	V8	1st	146.0	3.306	4.7	BF-K1	SR	GN	GN	ME996163
					2nd	146.0	3.0	5.1	T1	SR	GN	GN	
					3rd	146.0	3.0	5.1	T1	SR	GN	GN	
					Oil	146.0	4.0	4.4	E-BC16	SR	GN	GN	
S6A3		For Industrial Machine	YDM30120ZZ (1cyl)	1	1st	150.0	3.0	4.7	BF-K2	SR	GN	GN	35A17-01010
					2nd	150.0	2.5	5.5	T1-K2	CR	Cr	Fe	
					Oil	150.0	5.0	4.9	E-BC16	SR	Cr	Fe	
8M21	21,205	Aero King Aero Queen The Great Super Great	SDM31179ZZ	V8	1st	150.0	3.306	5.5	BF-K1	SR	GN	GN	ME996167
					2nd	150.0	3.0	5.95	T1-IC	HB	Cr	Fe	
					3rd	150.0	3.0	5.8	B1-TUC	HB	Cr	Fe	
					Oil	150.0	4.0	4.65	E-BC16	SR	Cr	Fe	

● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
R06A	658	Moco NT100 NV100	SWS20229ZZ (TCC-N-0701)	3	1st	64.0	1.0	2.1	BF-IB	SR	GN	GN	12140-55S00
					2nd	64.0	1.0	2.1	TUC	SR	Fe	Fe	
					Oil	64.0	2.0	1.95	NIFF-H	SR	GN	GN	
MA10 MA10ET	987	March	SWN30051ZZ (STD)	4	1st	68.0	1.5	2.5	BF	SR	Cr	Fe	12033-01B05
					2nd	68.0	1.5	3.1	T1	CR	Fe	Fe	12033-01B10
					Oil	68.0	2.8	3.0	NIFF-S	SR	Cr	Fe	12033-01B11
			SWN30076ZZ (O/S0.2)	4	1st	68.2	1.5	2.5	BF	SR	Cr	Fe	12035-01B10
					2nd	68.2	1.5	3.1	T1	CR	Fe	Fe	
					Oil	68.2	2.8	3.0	NIFF-S	SR	Cr	Fe	
CR10DE CR12DE	997 1,240	March	SWN30135ZZ (STD)	4	1st	71.0	1.2	2.45	BF	SR	Cr	Fe	12033-AX001
					2nd	71.0	1.2	2.7	T1	CR	Fe	Fe	
					Oil	71.0	2.0	2.2	NIFF-H	SR	Cr	Fe	
			SWN30136ZZ (O/S0.2)	4	1st	71.2	1.2	2.45	BF	SR	Cr	Fe	12035-AX000
					2nd	71.2	1.2	2.7	T1	CR	Fe	Fe	
					Oil	71.2	2.0	2.2	NIFF-H	SR	Cr	Fe	
CG10DE CG13DE	997 1,274	March	SWN30110ZZ (STD)	4	1st	71.0	1.2	2.45	BF	SR	Cr	Fe	12033-41B01
					2nd	71.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	71.0	3.0	2.85	NIFF-H	SR	GN	GN	
			SWN30112ZZ (O/S0.2)	4	1st	71.2	1.2	2.45	BF	SR	Cr	Fe	12035-41B01
					2nd	71.2	1.5	3.1	T1	CR	Fe	Fe	
					Oil	71.2	3.0	2.85	NIFF-S	SR	Cr	Fe	
MA12S QG13DE	1,235	March Micra	SWN30074ZZ (STD)	4	1st	71.0	1.5	2.3	BF	SR	GN	GN	12033-05B10
					2nd	71.0	1.5	3.25	T1	CR	Fe	Fe	12033-05B11
					Oil	71.0	2.8	2.8	NIFF-S	SR	GN	GN	12033-4M410
			SWN30087ZZ (O/S0.2)	4	1st	71.2	1.5	2.3	BF	SR	GN	GN	12035-05B10
					2nd	71.2	1.5	3.25	T1	CR	Fe	Fe	
					Oil	71.2	2.8	2.8	NIFF-S	SR	GN	GN	
GA13DE GA13DS	1,295	Sentra Sunny	SWN30204ZZ	4	1st	71.0	1.5	3.15	BF	HB	Cr	Fe	12033-50Y00
					2nd	71.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	71.0	2.8	2.8	NIFF-S	SR	GN	GN	
CGA3DE	1,348	Cube March Micra	SWN30128ZZ	4	1st	72.0	1.2	2.65	BF	SR	Cr	Fe	12033-2U800
					2nd	72.0	1.2	3.1	T1	CR	Fe	Fe	
					Oil	72.0	2.5	2.55	NIFF-S	SR	Cr	Fe	
HR10DET	999	Almera 1.0 Turbo Micra	TCC-X-072	3	1st	72.2	1.2	2.5	BF	SR	GN	GN	12033-5EK0A
					2nd	72.2	1.0	2.5	TUC	SR	Fe	Fe	
					Oil	72.2	2.0	2.25	NIFF-H	SR	GN	GN	
HR13DDT	1,332	Qashqai X-Trail	SWN30210ZZ (TCC-S-0871)	4	1st	72.2	1.2	2.5	BF	SR	GN	GN	A2033-00Q0E
					2nd	72.2	1.5	2.85	TUC	CR	Cr	Fe	
					Oil	72.2	2.0	2.4	NIFF-H	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
J13	1,299	Bluebird 1000 1200	SWN30026ZZ	4	1st	73.0	2.0	3.0	T1	CR	Cr	Fe	12033-A6200
A10	988	1300			2nd	73.0	2.0	3.0	T1	CR	Fe	Fe	12033-H6200
		Sunny (100Y)			Oil	73.0	4.0	3.0	NIFF-S	SR	Cr	Fe	12033-B3040 12033-H6211
A12	1,171	Pulser (100A) Cherry Vanette (C20) Sunny (120Y) Pulser (120A) Cherry 1200 Pick UP											
E10	988	Sunny P130 VP130 WP13D	SWN30095ZZ	4	1st	73.0	1.5	3.0	BF	HB	Cr	Fe	12033-41M01
					2nd	73.0	1.5	3.1	TUC	CR	Fe	Fe	12033-41M02
					Oil	73.0	4.0	3.0	NIFF-S	SR	Cr	Fe	
CR14DE	1,386	Cube	SWN30137ZZ (STD)	4	1st	73.0	1.2	2.25	BF	SR	Cr	Fe	12033-AX201
					2nd	73.0	1.2	2.8	T1	CR	Fe	Fe	
					Oil	73.0	2.0	2.2	NIFF-H	SR	Cr	Fe	
			SWN30138ZZ (O/S0.2)	4	1st	73.2	1.2	2.25	BF	SR	Cr	Fe	12035-AX200
					2nd	73.2	1.2	2.8	T1	CR	Fe	Fe	12035-AX201
					Oil	73.2	2.0	2.2	NIFF-H	SR	Cr	Fe	
GA14	1,392	AD Van R-VY10 VFY10	SWN30103ZZ	4	1st	73.6	1.5	2.7	BF	SR	GN	GN	12033-87A10
					2nd	73.6	1.5	3.1	T1	CR	Cr	Fe	12033-87A11
					Oil	73.6	2.8	2.8	NIFF-S	SR	GN	GN	12033-53Y00
QG15DE	1,497	Wingroad	SWN30172ZZ	4	1st	73.6	1.2	2.45	BF	SR	Cr	Fe	12033-5M370
					2nd	73.6	1.2	3.2	T1	CR	Fe	Fe	
					Oil	73.6	2.5	2.55	NIFF-H	SR	Cr	Fe	
		Sunny Wing road Bluebird sylphy	TCC-S-0880	4	1st	73.6	1.2		BF	SR	Cr	Fe	12033-4M520
					2nd	73.6	1.2		T1	CR	Fe	Fe	
					Oil	73.6	2.0		NIFF-H	SR	Cr	Fe	
A12A	1,237	Sunny (120Y) B310 Pulser (120A)	SWN30073ZZ	4	1st	75.0	2.0	3.2	T1	HB	Cr	Fe	12033-H8500
					2nd	75.0	2.0	3.2	T1	CR	Fe	Fe	
					Oil	75.0	4.0	3.05	NIFF-S	SR	Cr	Fe	
A14	1,397	Sunny (140Y) Pulser (140A) Violet (140A) Vanetto (C20)	SWN30045ZX	4	1st	76.0	2.0	2.85	BF	SR	Cr	Fe	12033-H7200
					2nd	76.0	2.0	3.4	T1	CR	Fe	Fe	12033-H8660
					Oil	76.0	4.0	3.25	NIFF-S	SR	Cr	Fe	12033-H8900 12033-H9910
A14(NEW)	1,397	Vanette (C20) B210 B310 Sunny	SWN30052ZZ	4	1st	76.0	1.2	3.05	BF	SR	Cr	Fe	12033-H7680
					2nd	76.0	2.0	3.4	TUC	CR	Fe	Fe	12033-H9800
					Oil	76.0	4.0	3.25	NIFF-S	SR	Cr	Fe	12033-H9810 12033-H9915 12033-H9918
A15	1,487	Pulser											

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
E13	1,270	Sunny	SWN30057ZY	4	1st	76.0	1.5	2.65	BF	SR	Cr	Fe	12033-01M01
		Pulser			2nd	76.0	1.5	3.4	T1	CR	Fe	Fe	12033-01M02
		Laurel Spirit			Oil	76.0	4.0	3.0	NIFF-S	SR	Cr	Fe	12033-01M03
		Langley											12033-01M10
E15	1,487	California AD Van											12033-01M12
GA16	1,596	Sunny	SWN30097ZY	4	1st	76.0	1.5	2.65	BF	SR	Cr	Fe	12033-94M00
		Pulser			2nd	76.0	1.5	3.2	T1	CR	Fe	Fe	12033-94M01
		Primera			Oil	76.0	2.8	2.8	NIFF-H	SR	GN	GN	12033-94M02
		Sentra											
GA16DE	1,596	Sunny	SWN30104ZZ	4	1st	76.0	1.5	3.3	BF	HB	Cr	Fe	12033-57Y00
		Pulser			2nd	76.0	1.5	3.2	T1	CR	Fe	Fe	12033-57Y01
		Primera			Oil	76.0	2.8	2.8	NIFF-H	SR	GN	GN	
QG16DE	1,596	SM3	SWN30194ZZ	4	1st	76.0	1.5	2.7	BF	SR	GN	GN	13141-43900-S0
		SM3CE			2nd	76.0	1.5	3.1	T1	CR	Cr	Fe	
		Sunny			Oil	76.0	2.8	2.55	NIFF-S	SR	GN	GN	
		Primera											
		Sentra	SWN30207ZZ (TCC-P-0740)	4	1st	76.0	1.2	2.7	BF	SR	GN	GN	12033-7J910
		Almera			2nd	76.0	1.2	3.1	T1	CR	Fe	Fe	
					Oil	76.0	2.5	2.5	NIFF-H	SR	GN	GN	
VQ20	1,995	Cefiro	SWN30130ZZ	V6	1st	76.0	1.2	2.7	BF-IB	SR	Cr	Fe	12033-31U00
		Maxima			2nd	76.0	1.2	3.3	T1	CR	Fe	Fe	12033-31U01
					Oil	76.0	2.5	2.8	NIFF-S	SR	Cr	Fe	
J15	1,483	Datsun	SWN30033ZX	4	1st	77.95	2.0	2.85	BF	SR	Cr	Fe	12033-01W60
		Caravan			2nd	77.95	2.0	3.7	T1	CR	Fe	Fe	12033-01W61
		Cabster			Oil	77.95	4.0	3.0	NIFF-S	SR	Cr	Fe	12033-01W62
		Truck											12033-B3030
J16	1,567	N521 UN521											12033-B8200
		HT20											
		Bus											
L20ET	1,988	SVE20 VPE20	SWN30037ZZ	6	1st	77.95	2.0	3.3	T1	HB	Cr	Fe	12033-E3030
		KT20			2nd	77.95	2.0	3.7	T1	CR	Fe	Fe	12033-V0300
					Oil	77.95	4.0	3.0	NIFF-S	SR	Cr	Fe	12033-V0310
													12033-V0400
CA16S	1,598	Cedric Deluxe	SWN30055ZY	4	1st	77.95	1.5	2.9	BF	SR	Cr	Fe	12033-06E00
		Gloria Deluxe			2nd	77.95	1.5	3.4	T1	CR	Fe	Fe	12033-D0120
		Skyline			Oil	77.95	4.0	3.0	NIFF-S	SR	Cr	Fe	12033-D0400
													12033-06E01
L20A	1,988	Bluebird	SWN30068ZZ	6	1st	77.95	1.5	3.3	BF	HB	Cr	Fe	12033-01L00
		Stanza			2nd	77.95	2.0	3.7	TUC	CR	Fe	Fe	
		Auster			Oil	77.95	4.0	3.0	NIFF-S	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
VG20E VG20ET VG20DET	1,998	Cedric Gloria Laurel Fairlady Z	SWN30092ZY	V6	1st	77.95	1.5	2.9	BF	SR	Cr	Fe	12033-12P00
					2nd	77.95	1.5	3.4	T1	CR	Fe	Fe	12033-V5310
					Oil	77.95	2.8	3.0	NIFF-S	SR	Cr	Fe	
CA16 CA16DE	1,598	Stanza Auster Bluebird	SWN30111ZZ	4	1st	77.95	1.5	2.9	BF-IB	SR	Cr	Fe	12033-55M00
					2nd	77.95	1.5	3.4	T1	CR	Fe	Fe	
					Oil	77.95	2.8	3.0	NIFF-S	SR	Cr	Fe	
L20	1,998	Cedric Bluebird Gloria Skyline2000GT Laurel Fairlady Z	SWN30049ZZ	6	1st	77.95	2.0	3.6	T1	CR	Cr	Fe	12033-73401
					2nd	77.95	2.5	3.7	T1	CR	Fe	Fe	12033-73402
					Oil	77.95	4.0	3.0	NIFF-S	SR	Cr	Fe	
			TCC-R-0820	6	1st	77.95	1.2		BF	SR	GN	GN	12033-Y7000
					2nd	77.95	2.0		T1	CR	Fe	Fe	
					Oil	77.95	4.0		NIFF-S	SR	GN	GN	
RB20E	1,998	Skyline Laurel	SWN30173ZZ	6	1st	77.95	1.5	2.7	BF	SR	GN	GN	12033-65L00
					2nd	77.95	1.5	3.4	T1	CR	Cr	Fe	
					Oil	77.95	2.8	2.85	NIFF-S	SR	GN	GN	
HR12DE	1,198	March	SWN30197ZZ	3	1st	78.0	1.2	2.45	BF-IB	SR	Cr	Fe	12033-1HC0C
					2nd	78.0	1.2	2.7	T1	CR	Fe	Fe	
					Oil	78.0	2.0	2.3	NIFF-H	SR	Cr	Fe	
HR16DE	1,597	Vanette Wagon March Note Tida Kicks	SWN30196ZZ	4	1st	78.0	1.2	2.45	BF-IB	SR	Cr	Fe	12033-EE50A
					2nd	78.0	1.2	2.7	T1	CR	Fe	Fe	12033-EE000
					Oil	78.0	2.0	2.3	NIFF-H	SR	Cr	Fe	
			SWN30206ZZ	4	1st	78.0	1.2	2.5	BF-IB	SR	GN	GN	12033-5RB0A
					2nd	78.0	1.0	2.5	TUC	SR	Fe	Fe	
					Oil	78.0	2.0	2.2	NIFF-H	SR	GN	GN	
MR16DDT	1,618	Juke 16GT	SWN30186ZZ	4	1st	79.7	1.2	2.5	BF-IB	SR	GN	GN	12033-1KC0A
					2nd	79.7	1.0	2.7	TUC	SR	Fe	Fe	12033-3RC0B
MRA8DE	1,798	Sentra			Oil	79.7	2.0	2.4	NIFF-H	SR	GN	GN	
QG18DE	1,768	Wingroad Bluebird Bluebird Sylphy Primera	SWN30127ZZ	4	1st	80.0	1.5	2.87	BF	SR	Cr	Fe	12033-WD310
					2nd	80.0	1.5	3.4	T1	CR	Cr	Fe	
					Oil	80.0	2.8	2.85	NIFF-S	SR	Cr	Fe	
			SWN30142ZY	4	1st	80.0	1.2	2.85	BF	SR	Cr	Fe	12033-AU300
					2nd	80.0	1.2	3.4	T1	CR	Fe	Fe	12033-5M010
					Oil	80.0	2.5	2.6	NIFF-S	SR	Cr	Fe	12033-5M020
J18	1,800	Fork Lift Truck	SWN30099ZZ	4	1st	80.5	1.5	3.25	BF	SR	Cr	Fe	12033-N7900
					2nd	80.5	2.0	3.7	T1	CR	Fe	Fe	
					Oil	80.5	4.0	3.25	NIFF-S	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
NA16S	1,627	Datsun Truck Atlas	SWN30199ZZ	4	1st	81.5	1.5	3.1	BF	SR	GN	GN	12033-73P00
					2nd	81.5	1.5	3.6	T1	CR	Cr	Fe	
					Oil	81.5	4.0	3.05	NIFF-S	SR	GN	GN	
SR18	1,838	Bluebird Presta Sunny Primera	SWN30105ZZ (STD)	4	1st	82.5	1.5	2.9	BF-IB	SR	GN	GN	12033-0E101
					2nd	82.5	1.5	3.5	T1	CR	Cr	Fe	
					Oil	82.5	3.0	2.85	NIFF-S	SR	GN	GN	
			SWN30106ZZ (O/S0.2)	4	1st	82.7	1.5	2.9	BF-IB	SR	GN	GN	12035-0E101
					2nd	82.7	1.5	3.5	T1	CR	Cr	Fe	
					Oil	82.7	3.0	2.85	NIFF-S	SR	GN	GN	
L13	1,296	Bluebird 1300 1400	SWN30014ZZ	4	1st	83.0	2.0	3.6	T1	CR	Cr	Fe	12033-06000
L14	1,428	P510A P510P			2nd	83.0	2.0	3.8	T1	CR	Fe	Fe	12033-21000
		P510T P510TK			Oil	83.0	4.0	3.75	NIFF-S	SR	Cr	Fe	12033-23000
L16	1,595	KT510 WP510 Violet J710 VJ710 Sunny PB210											12033-A0600 12033-A3500 12033-A3501 12033-W0700 12033-W7110
L24	2,395	Bluebird Cedric (240C)	SWN30034ZZ	6	1st	83.0	2.0	3.8	T1	CR	Fe	Fe	12033-E3100
L26	2,565	Skyline (240K)			2nd	83.0	2.0	3.8	T1	CR	Fe	Fe	12033-E3110
		Fairlady Z (240Z) Fairlady Z (260Z) Laurel (260L)			Oil	83.0	4.0	3.9	NIFF-S	SR	Cr	Fe	12033-W0810 12033-A8620
CA18E CA18S	1,809	Laurel Skyline Silvia Gazelle Stanza Auster Prairie	SWN30056ZZ	4	1st	83.0	1.5	2.85	BF	SR	Cr	Fe	12033-01E00
				2nd	83.0	1.5	3.6	T1	CR	CR	Cr	Fe	12033-01E10
				Oil	83.0	4.0	3.05	NIFF-S	SR	CR	Cr	Fe	12033-01F00 12033-D0210 12033-D0500
CA18P (LPG)	1,809	Bluebird Skyline Stanza	SWN30083ZZ	4	1st	83.0	2.0	2.85	BF-IB	SR	Cr	Fe	12033-49L00
				2nd	83.0	1.5	3.6	T1	CR	CR	Cr	Fe	
				Oil	83.0	2.8	3.0	NIFF-S	SR	CR	Cr	Fe	
CA18DET CA18ET	1,809	Gazelle Turbo Silvia Turbo Bluebird Turbo	SWN30090ZZ	4	1st	83.0	1.5	2.9	BF	SR	GN	GN	12033-44F00
				2nd	83.0	1.5	3.6	T1	CR	CR	Cr	Fe	12033-D4210
				Oil	83.0	2.8	2.8	NIFF-S	SR	GN	GN	GN	12033-17F00 12033-18F00 12033-18F10
MR18DE	1,797	Tiida Lafesta	SWN30154ZZ	4	1st	84.0	1.2	2.65	BF	SR	Cr	Fe	12033-EN200
MR20DE	1,999	Cube			2nd	84.0	1.2	3.0	TUC	CR	Fe	Fe	12033-CK80A
		Versa Sentra			Oil	84.0	2.0	2.55	NIFF-H	SR	Cr	Fe	12033-EN20A

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
MR20DE MR-FFV	1,999	Tiida Lafesta Cube Versa Sentra	SWN30166ZZ	4	1st	84.0	1.2	2.6	BF	SR	GN	GN	12033-8W80A
					2nd	84.0	1.2	3.0	TUC	CR	Cr	Fe	
					Oil	84.0	2.0	2.55	NIFF-H	SR	GN	GN	
MR20DD	1,999	Serena	SWN30188ZZ	4	1st	84.0	1.2	2.7	BF-IB	SR	GN	GN	12033-1VA0A
					2nd	84.0	1.2	3.0	TUC	CR	Fe	Fe	
					Oil	84.0	2.0	2.5	NIFF-H	SR	GN	GN	
CA20A	1,973	Bluebird Cherry Vanette	SWN30053ZZ	4	1st	84.5	1.5	3.05	BF	SR	Cr	Fe	12033-04E00
					2nd	84.5	1.5	3.7	T1	CR	Cr	Fe	12033-04E10
					Oil	84.5	4.0	3.05	NIFF-S	SR	Cr	Fe	12033-D1700
												12033-D2000	
CA20P (LPG)	1,973	Bluebird Stanza	SWN30075ZZ	4	1st	84.5	2.0	2.85	BF-IB	SR	Cr	Fe	12033-V5600
					2nd	84.5	1.5	3.7	T1	CR	Cr	Fe	
					Oil	84.5	2.8	3.0	NIFF-S	SR	Cr	Fe	
CA20E	1,973	Bluebird	SWN30121ZZ	4	1st	84.5	1.5	3.1	BF	SR	GN	GN	12033-61E10
					2nd	84.5	1.5	3.7	T1	CR	Cr	Fe	
					Oil	84.5	2.8	2.85	NIFF-S	SR	GN	GN	
G16	1,593	Laurel 1800 C30 C30A C30T Bluebird KH510 P610 U1800SSS Skyline CP10 110 KPC10 110	SWN30020ZX	4	1st	85.0	2.0	3.3	BF	SR	GN	GN	12033-78250
G18	1,815				2nd	85.0	2.0	4.2	T1	CR	Fe	Fe	12033-78251
					Oil	85.0	4.0	3.25	NIFF-S	SR	Cr	Fe	12033-A8701
L18	1,770												
Z18	1,770	Skyline Laurel	SWN30048ZZ	4	1st	85.0	2.0	3.9	T1	CR	Cr	Fe	12033-U6001
L20B	1,952	Cedric Silvia Gazelle Stanza Bluebird Auster			2nd	85.0	2.0	4.2	T1	CR	Fe	Fe	12033-U6002
					Oil	85.0	4.0	3.25	NIFF-S	SR	Cr	Fe	12033-W0805
												12033-W0815	
												12033-N9700	
													12033-W1600
Z20 Z20E Z20S	1,952	Laurel Caravan Vanette Bluebird Silvia Skyline	SWN30084ZZ	4	1st	85.0	2.0	2.85	BF-IB	SR	Cr	Fe	12033-82W01
				2nd	85.0	1.5	3.7	T1	CR	Cr	Fe		
				Oil	85.0	4.0	3.15	NIFF-S	SR	Cr	Fe		
			SWN30086ZY	4	1st	85.0	1.5	3.05	BF	SR	Cr	Fe	12033-24G00
				2nd	85.0	1.5	3.7	T1	CR	Fe	Fe	12033-N8510	
				Oil	85.0	4.0	3.15	NIFF-S	SR	Cr	Fe	12033-N8520	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
P	3,956	Truck 680 D680 G680 T680 S680 DG680 681 D681 G81 D681 G681 S681 TG690	SWN30022ZZ	6	1st	85.69	2.5	3.7	BF	CR	Cr	Fe	12033-58003
					2nd	85.69	2.5	3.7	T1	CR	Fe	Fe	12033-58004
					Oil	85.69	4.76	4.0	NIFF-S	SR	Cr	Fe	12033-58005 12033-C6000 12033-C6011
Z24S	2,389	Terrano WD21	SWN30159ZZ	4	1st	86.0	1.5	3.1	BF-IB	SR	GN	GN	12033-3T600
					2nd	86.0	1.5	3.65	T1	CR	Cr	Fe	12033-0H600
					Oil	86.0	4.0	2.8	NIFF-S	SR	GN	GN	
L28	2,753	Cedric (280C) Fairlady Z (280Z) Laurel (280L) Leopard	SWN30047ZZ	6	1st	86.0	2.0	3.9	T1	CR	Cr	Fe	12033-M4210
					2nd	86.0	2.0	4.05	T1	CR	Fe	Fe	12033-N4220
					Oil	86.0	4.0	3.25	NIFF-S	SR	Cr	Fe	12033-P8360 12033-P3870
L28E	2,753	Leopard Fairlady Z Laurel	SWN30066ZZ	6	1st	86.0	1.5	3.6	BF	HB	Cr	Fe	12033-P8600
					2nd	86.0	2.0	4.05	TUC	CR	Fe	Fe	12033-P8610
					Oil	86.0	4.0	3.25	NIFF-S	SR	Cr	Fe	12033-P7000 12033-P7910
RB30	2,962	Skyline Patrol	SWN30091ZZ	6	1st	86.0	1.5	3.1	BF-IB	SR	GN	GN	12033-67S10
					2nd	86.0	1.5	3.65	T1	CR	Cr	Fe	
					Oil	86.0	2.8	2.85	NIFF-S	SR	GN	GN	
NA20S	1,998	Datsun Truck Atlas Caravan Homy	SWN30202ZZ	4	1st	86.0	1.5	3.05	BF-IB	SR	Cr	Fe	12033-85G00
					2nd	86.0	1.5	3.65	T1	CR	Cr	Fe	12033-85G10
					Oil	86.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
SR20DE	1,998	Bluebird Silvia 180SX Primera Serena	SWN30102ZZ (STD)	4	1st	86.0	1.5	3.05	BF-IB	SR	Cr	Fe	12033-60J20
					2nd	86.0	1.5	3.65	T1	CR	Cr	Fe	12033-60J22
					Oil	86.0	3.0	3.0	NIFF-S	SR	Cr	Fe	12033-60J62
			SWN30109ZZ (O/S0.2)	4	1st	86.2	1.5	3.1	BF-IB	SR	GN	GN	12035-60J20
					2nd	86.2	1.5	3.65	T1	CR	Cr	Fe	12035-60J22
					Oil	86.2	3.0	3.05	NIFF-S	SR	GN	GN	12035-60J62
			SWN30123ZZ (STD)	4	1st	86.0	1.2	3.1	BF	SR	GN	GN	12033-3J610
					2nd	86.0	1.2	3.7	T1	CR	Cr	Fe	12033-4M802
					Oil	86.0	2.5	2.85	NIFF-S	SR	GN	GN	
			SWN30124ZZ (O/S0.2)	4	1st	86.2	1.2	3.1	BF	SR	GN	GN	12035-3J600
					2nd	86.2	1.2	3.7	T1	CR	Cr	Fe	12035-3J610
					Oil	86.2	2.5	2.85	NIFF-S	SR	GN	GN	
Z22E Z22S	2,187	Datsun Truck Cabstar	SWN30054ZZ	4	1st	87.0	1.5	3.05	BF	SR	Cr	Fe	12033-06W10
					2nd	87.0	1.5	3.8	T1	CR	Cr	Fe	12033-06W20
					Oil	87.0	4.0	3.05	NIFF-S	SR	GN	GN	12033-D8500

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
VG30E VG30DE VG30DETT VE30DE	2,960	Cedric Gloria Fairlady Z Maxima Leopard	SWN30058ZZ	V6	1st	87.0	1.5	3.1	BF	SR	GN	GN	12033-02P10
					2nd	87.0	1.5	3.8	T1	CR	Cr	Fe	12033-03P00
					Oil	87.0	2.8	3.0	NIFF-S	SR	GN	GN	12033-03P10
													12033-21P10
													12033-F6500
													12033-F6510
													12033-F6511
VG30i		Datsun Truck	SWN30093ZZ	V6	1st	87.0	2.0	3.1	BF-IB	SR	GN	GN	12033-15G10
					2nd	87.0	1.5	3.8	T1	CR	Cr	Fe	12033-V8000
					Oil	87.0	2.8	3.1	NIFF-S	SR	Cr	Fe	12033-15V00
H20	1,982	Cedric 130 130V W130 Junior 41 Caball C142 DC142 Clipper Miler 444 D444 444A Gloria Van Bus GC240	SWN30069ZX	4	1st	87.2	2.0	3.3	BF	SR	GN	GN	12033-R9000
					2nd	87.2	2.5	4.05	TUC	CR	Fe	Fe	12033-R9023
					Oil	87.2	4.0	3.8	NIFF-S	SR	Cr	Fe	12033-Y4460
Z24	2,389	Datsun Truck	SWN30059ZZ	4	1st	89.0	1.5	3.25	BF	SR	Cr	Fe	12033-10W00
					2nd	89.0	1.5	3.9	T1	CR	Cr	Fe	12033-30W10
					Oil	89.0	4.0	3.2	NIFF-S	SR	Cr	Fe	
Z24i			SWN30085ZZ	4	1st	89.0	2.0	3.05	BF-IB	SR	Cr	Fe	12033-13G10
					2nd	89.0	1.5	3.9	T1	CR	Fe	Fe	12033-83W00
					Oil	89.0	4.0	3.2	NIFF-S	SR	Cr	Fe	
KA24E	2,389	Largo	SWN30096ZZ	4	1st	89.0	1.5	3.27	BF-IB	SR	Cr	Fe	12033-53F01
					2nd	89.0	1.5	3.9	T1	CR	Cr	Fe	12033-70F00
					Oil	89.0	2.8	3.15	NIFF-S	SR	Cr	Fe	12033-86G01
KA24DE	2,389	Altima Frontier Pickup Xterra	SWN30118ZZ	4	1st	89.0	1.5	3.05	BF-IB	SR	Cr	Fe	12033-1E400
					2nd	89.0	1.5	3.9	T1	CR	Cr	Fe	
					Oil	89.0	2.8	3.15	NIFF-S	SR	Cr	Fe	
			SWN30143ZZ	4	1st	89.0	1.2	3.25	BF-IB	SR	Cr	Fe	12033-9E000
					2nd	89.0	1.2	3.8	T1	CR	Cr	Fe	
					Oil	89.0	2.5	2.85	NIFF-S	SR	Cr	Fe	
			SWN30143ZY	4	1st	89.0	1.2	3.25	BF-IB	SR	Cr	Fe	12033-5V110
					2nd	89.0	1.2	3.8	T1	CR	Fe	Fe	
					Oil	89.0	2.5	2.85	NIFF-H	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
QR25DE	2,488	X-Trail 25X Serena Teana Elgrand Murano Altima Caravan Rogue	SWN30140ZZ (STD)	4	1st	89.0	1.2	3.1	BF-IB	SR	GN	GN	12033-9H500
					2nd	89.0	1.2	3.8	T1	CR	Cr	Fe	12033-8H301
					Oil	89.0	2.5	2.85	NIFF-S	SR	GN	GN	
			SWN30141ZZ (O/S0.2)	4	1st	89.2	1.2	3.1	BF-IB	SR	GN	GN	12035-9H500
					2nd	89.2	1.2	3.8	T1	CR	Cr	Fe	
					Oil	89.2	2.5	2.85	NIFF-S	SR	GN	GN	
			SWN30189ZY (STD)	4	1st	89.0	1.2	2.9	BF-IB	SR	GN	GN	12033-ET80B
					2nd	89.0	1.2	3.8	T1	CR	Fe	Fe	12033-JA00B
					Oil	89.0	2.0	2.25	NIFF-H	SR	GN	GN	12033-JG30A 12033-3TA0A
			SWN30200ZY (O/S0.2)	4	1st	89.2	1.2	2.9	BF-IB	SR	GN	GN	
					2nd	89.2	1.2	3.8	T1	CR	Fe	Fe	
					Oil	89.2	2.0	2.25	NIFF-H	SR	GN	GN	
QR20DE QR25DE	1,998 2,488	X-Trail Primera Liverty Serena Elgrand	TCC-R-0819	4	1st	89.0	1.2		BF	SR	GN	GN	12033-AE003
					2nd	89.0	1.2		T1	SR	Fe	Fe	
					Oil	89.0	2.5		NIFF-H	SR	GN	GN	
KA24GN	2,388	240SX Prairie Bluebird Caravan	TCC-R-0821	4	1st	89.0	1.2		BF-IB	SR	GN	GN	12033-VJ260
					2nd	89.0	1.2		T1	CR	Cr	Fe	
					Oil	89.0	2.5		NIFF-H	SR	GN	GN	
VG33	3,274	Elgrand Terrano	SWN30120ZZ	V6	1st	91.5	1.5	3.25	BF	SR	Cr	Fe	12033-0W000
					2nd	91.5	1.5	4.0	T1	CR	Cr	Fe	12033-0W010
					Oil	91.5	2.8	3.05	NIFF-S	SR	Cr	Fe	
Y44 Y40	4,414	President	SWN30078ZZ	V8	1st	92.0	2.0	3.1	BF	SR	GN	GN	12033-F2700
					2nd	92.0	2.5	4.0	T1	CR	Cr	Fe	12033-F1100
					Oil	92.0	4.0	3.3	NIFF-S	SR	Cr	Fe	
VQ30DE	2,987	Maxima Cedric Gloria	SWN30115ZZ (STD)	V6	1st	93.0	1.2	3.25	BF	SR	Cr	Fe	12033-38U01
					2nd	93.0	1.2	4.0	T1	CR	Fe	Fe	12033-47U01
					Oil	93.0	2.5	2.85	NIFF-S	SR	Cr	Fe	12033-2Y903 12033-AG301 12033-AG302 12033-47U03
			SWN30119ZZ (O/S0.2)	V6	1st	93.2	1.2	3.3	BF-IB	SR	GN	GN	12035-AG301
					2nd	93.2	1.2	4.0	T1	CR	Cr	Fe	12035-47U03
					Oil	93.2	2.5	2.85	NIFF-S	SR	GN	GN	
VQ35DE	3,498	Elgrand Fuga Skyline Murano Teana Maxima Stagea Quest Frontier NV1500	SWN30131ZZ (STD)	V6	1st	95.5	1.2	3.45	BF	SR	Cr	Fe	12033-4W005
					2nd	95.5	1.2	4.1	T1	CR	Fe	Fe	12033-8J100
					Oil	95.5	2.5	2.75	NIFF-S	SR	Cr	Fe	
			SWN30132ZZ (O/S0.2)	V6	1st	95.7	1.2	3.45	BF	SR	Cr	Fe	12035-4W003
					2nd	95.7	1.2	4.1	T1	CR	Fe	Fe	12035-4W004
					Oil	95.7	2.5	2.75	NIFF-S	SR	Cr	Fe	12035-4W005 12035-4W007 12035-5W300
VQ40DE	3,954	NV2500 NV3500	SWN30191ZZ	V6	1st	95.5	1.2	3.1	BF	SR	GN	GN	12033-JA10D
					2nd	95.5	1.2	4.1	TUC	CR	Fe	Fe	12033-JP00A
					Oil	95.5	2.0	2.6	NIFF-H	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
VQ35HR	3,498	Fairlady Z	SWN30162ZZ (STD)	V6	1st	95.5	1.2	3.1	BF	SR	GN	GN	12033-JK20A
VQ37VHR	3,696	Skyline			2nd	95.5	1.2	3.7	TUC	CR	Fe	Fe	12033-JK20C
		Fuga			Oil	95.5	2.0	2.6	NIFF-H	SR	GN	GN	
VK50VE	5,026	Infiniti	SWN30184ZZ (STD)	V8	1st	95.5	1.2	3.15	BF-IB	SR	GN	GN	12033-1CA0A
					2nd	95.5	1.2	3.7	TUC	CR	Fe	Fe	
					Oil	95.5	2.0	2.5	NIFF-H	SR	GN	GN	
			SWN30185ZZ (O/S0.2)	V8	1st	95.7	1.2	3.15	BF-IB	SR	GN	GN	12035-1CA0A
					2nd	95.7	1.2	3.7	TUC	CR	Fe	Fe	
					Oil	95.7	2.0	2.5	NIFF-H	SR	GN	GN	
TB42 TB42E	4,169	Safari	SWN30122ZZ	6	1st	96.0	2.0	3.3	BF	SR	GN	GN	12033-03J00
					2nd	96.0	2.0	4.2	T1	CR	Cr	Fe	
					Oil	96.0	4.0	3.25	NIFF-S	SR	GN	GN	
VK56DE (OLD)	5,552	Infiniti Armada	SWN30149ZZ (STD)	V8	1st	98.0	1.5	3.45	BF	SR	Cr	Fe	12033-7S001
					2nd	98.0	1.5	4.3	TUC	CR	Fe	Fe	
					Oil	98.0	2.5	2.6	NIFF-S	SR	Cr	Fe	
			SWN30161ZZ (O/S0.2)	V8	1st	98.2	1.5	3.45	BF	SR	Cr	Fe	12035-7S002
					2nd	98.2	1.5	4.3	TUC	CR	Fe	Fe	
					Oil	98.2	2.5	2.6	NIFF-S	SR	Cr	Fe	
VK56DE (NEW)	5,552	Infiniti Patrol	SWN30160ZZ (STD)	V8	1st	98.0	1.5	3.3	BF	SR	GN	GN	12033-ZE00A
					2nd	98.0	1.5	4.3	TUC	CR	Fe	Fe	
					Oil	98.0	2.5	2.65	NIFF-S	SR	GN	GN	
			SWN30161ZY (O/S0.2)	V8	1st	98.2	1.5	3.3	BF	SR	GN	GN	12035-ZE00A
					2nd	98.2	1.5	4.3	TUC	CR	Fe	Fe	
					Oil	98.2	2.5	2.6	NIFF-S	SR	GN	GN	
VK56VD	5,552		SWN30177ZZ (STD)	V8	1st	98.0	1.2	3.1	BF-IB	SR	GN	GN	12033-1MC0B
					2nd	98.0	1.2	4.3	TUC	CR	Fe	Fe	12033-EZ30D
					Oil	98.0	2.5	2.45	NIFF-H	SR	GN	GN	
			SWN30183ZZ (O/S0.2)	V8	1st	98.2	1.2	3.1	BF-IB	SR	GN	GN	12035-1MC0B
					2nd	98.2	1.2	4.3	TUC	CR	Fe	Fe	
					Oil	98.2	2.5	2.45	NIFF-H	SR	GN	GN	
TB45E	4,478	Fork Lift Safari	SWN30181ZZ	6	1st	99.5	2.0	3.5	BF	SR	GN	GN	12033-VB000
					2nd	99.5	1.5	4.2	T1	CR	Cr	Fe	
					Oil	99.5	4.0	3.1	NIFF-S	SR	GN	GN	

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Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
CD17	1,680	Sunny	SDN30088ZX	4	1st	80.0	1.75	2.85	BF-IB	SR	Cr	Fe	12033-16A00
					2nd	80.0	2.0	3.3	T1-IC	CR	Cr	Fe	
					Oil	80.0	3.0	3.25	E-BC16	SR	GN	GN	
LD28	2,792	Cedric Gloria Skyline	SDN30067ZZ	6	1st	84.5	2.0	3.5	BF-IB	HB	Cr	Fe	12033-V0700
					2nd	84.5	2.0	3.5	T1-IC	CR	Fe	Fe	
					Oil	84.5	4.0	4.1	E-BC16	CR	Cr	Fe	
CD20	1,973	Datsun Truck Sunny Diesel	SDN30133ZZ	4	1st	84.5	2.0	3.1	BF-IB	SR	GN	GN	12033-57J00
					2nd	84.5	2.0	3.5	T1-IC	CR	Cr	Fe	
					Oil	84.5	3.0	3.25	E-BC16	SR	GN	GN	
CD20T	1,973	Avenir Serena Primera Vanette	SDN30203ZZ	4	1st	84.5	2.0	3.1	BF-K2	SR	GN	GN	12033-1C300
					2nd	84.5	2.0	3.5	T1-IC	CR	Cr	Fe	
					Oil	84.5	3.0	3.25	E-BC16	SR	GN	GN	
LD20	1,952	Bluebird	SDN30098ZX	4	1st	85.0	2.0	3.05	BF-IB	SR	Cr	Fe	12033-W1700
					2nd	85.0	2.0	3.5	T1-IC	CR	Fe	Fe	
					Oil	85.0	4.0	4.1	E-BC3	CR	Cr	Fe	
RD28	2,825	Crew Gloria Skyline	SDN30144ZZ	6	1st	85.0	2.0	3.1	BF	SR	GN	GN	12033-22J11
					2nd	85.0	2.0	3.5	T1-IC	CR	Cr	Fe	
					Oil	85.0	4.0	4.35	E-BC16	SR	GN	GN	
YD22DD	2,184	Sunny	SDN30180ZZ	4	1st	86.0	2.0	3.1	BF-K2	SR	GN	GN	12033-AW400
					2nd	86.0	2.0	3.6	T1-IC	CR	Fe	Fe	
					Oil	86.0	3.0	3.25	E-BC16	SR	GN	GN	
			SDN30169ZZ	4	1st	86.0	1.75	2.9	BF-K2	SR	GN	GN	12033-WD000
					2nd	86.0	1.5	3.05	T1-IB	SR	Cr	Fe	
					Oil	86.0	3.0	3.25	E-BC16	SR	GN	GN	
LD23	2,283	Serena	SDN30145ZZ	4	1st	87.0	2.0	3.5	BF-IC	HB	Cr	Fe	12033-9C625
					2nd	87.0	2.0	3.4	TUC	CR	Cr	Fe	
					Oil	87.0	3.0	3.3	E-BC16	CR	Cr	Fe	
YD25DDTi	2,488	Pathfinder Navara	SDN30182ZZ	4	1st	89.0	2.0	2.9	BF-K2	SR	GN	GN	12033-VK520
					2nd	89.0	2.0	3.5	T1-IC	CR	Cr	Fe	
					Oil	89.0	3.0	3.25	E-BC16	SR	GN	GN	
		Serena Bassara Presage	SDN30182ZY	4	1st	89.0	2.0	2.9	BF-K2	SR	GN	GN	12033-VK510 12033-EB30B 12033-5X00A
					2nd	89.0	2.0	3.6	T1-IB	CR	Fe	Fe	
					Oil	89.0	3.0	3.25	E-BC16	SR	GN	GN	
TD25-2	2,494	Truck	SDN30146ZZ	4	1st	92.9	2.5	3.45	BF	SR	Cr	Fe	12033-5T116
					2nd	92.9	2.0	4.0	T1-IC	CR	Cr	Fe	
					Oil	92.9	3.0	3.25	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
TD27T AD27T	2,664	Truck Caravan	SDN30147ZZ	4	1st	96.0	2.5	3.5	BF-K2	SR	GN	GN	12033-37N10
					2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe	
					Oil	96.0	4.0	4.35	E-BC16	SR	GN	GN	
BD30	2,953	Cedric Atlas	SDN30150ZX	4	1st	96.0	2.5	3.65	BF	SR	Cr	Fe	12033-54T10
					2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe	
					Oil	96.0	4.0	4.35	E-BC16	SR	GN	GN	
ZD30DD ZD30DDT BD30T	2,953	Atlas Caravan Navara	SDN30153ZZ	4	1st	96.0	2.5	3.5	BF-K2	SR	GN	GN	12033-2W211
					2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe	12033-0W814
					Oil	96.0	3.0	3.25	E-BC16	SR	GN	GN	12033-NA010 12033-0W813 12033-0W81A 12033-7F400
TD27ETi	2,664	Caravan Coach Mistral Terrano											
TD42T	4,169	Safari Civilian	SDN30156ZZ	6	1st	96.0	2.5	3.5	BF-K2	SR	GN	GN	12033-DY712
					2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe	
					Oil	96.0	3.0	3.25	E-BC16	SR	GN	GN	
			SDN30167ZZ	6	1st	96.0	2.5	3.7	BF-K2	SR	GN	GN	12033-05D01
					2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe	
					Oil	96.0	4.0	4.15	E-BC16	SR	GN	GN	
			SDN30187ZZ	6	1st	96.0	2.5	4.0	BF	HB	Cr	Fe	12033-06J15
					2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe	
					Oil	96.0	3.0	3.25	E-BC16	SR	GN	GN	
ZD30DDTi TD27-4	2,953	Safari Terrano	SDN30174ZZ	4	1st	96.0	2.5	3.7	BF-K2	SR	GN	GN	12033-VK610
					2nd	96.0	2.0	4.0	T1-IB	CR	Fe	Fe	12033-DB010
					Oil	96.0	2.0	2.75	E-BC16	SR	GN	GN	
ZD30DD	2,953	Caravan Coach Safari Terrano	SDN30195ZZ	4	1st	96.0	2.0	3.1	BF	SR	GN	GN	12033-2W200B
					2nd	96.0	1.2	3.0	T1-IB	SR	Cr	Fe	12033-VW210
					Oil	96.0	2.0	2.75	E-BC16	SR	GN	GN	12033-VW211
ED30	2,956	Truck	SDN30148ZZ	4	1st	98.0	3.0	4.2	BF	HB	Cr	Fe	12033-J5576
					2nd	98.0	2.0	3.9	T1-IC	CR	Cr	Fe	
					Oil	98.0	4.5	4.4	E-BC3	CR	Cr	Fe	
QD32NA	3,153	Caravan Datsun truck Frontier	SDN30152ZZ	4	1st	99.2	2.5	3.7	BF	SR	GN	GN	12033-2S610
					2nd	99.2	2.0	4.1	T1-IC	HB	Cr	Fe	
					Oil	99.2	3.0	3.15	E-BC16	SR	GN	GN	
QD32	3,153	Datsun Pick up Caravan Terrano	SDN30164ZZ	4	1st	99.2	2.5	3.8	BF-K2	HB	Cr	Fe	12033-1W411
					2nd	99.2	2.0	4.1	T1-IC	HB	Cr	Fe	
					Oil	99.2	3.0	3.15	E-BC16	SR	GN	GN	

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Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
SD20	1,991	Cedric	SDN31027ZZ	4	1st	83.0	2.5	3.5	BF	HB	Cr	Fe	12033-R8100
		QG31Y Q131			2nd	83.0	2.0	3.4	T1-IC	HB	Cr	Fe	12033-R8103
		Junior			Oil	83.0	4.5	3.9	E-BC3	CR	Cr	Fe	12033-R8104
		Q40 Q41											12033-R8110
		Caball											12033-R8112
SD22	2,164	HQC142	SDN31028ZZ	6									12033-R8114
		QC240											
		DQC240											
		QC141											
		Bus											
SD33T	3,246	CQC142	SDN31030ZZ	3	1st	83.0	2.5	3.5	BF-K2	HB	Cr	Fe	12033-C8704
		GHQC142			2nd	83.0	2.0	3.4	T1-IC	HB	Cr	Fe	12033-C8702
		KQC152			Oil	83.0	4.0	4.0	E-BC3	CR	Cr	Fe	
		Truck											
		Fork Lift											
SD15 SD16	1,493	Truck	SDN31037ZZ	4	1st	89.0	2.5	3.7	BF	HB	Cr	Fe	12033-L2000
		Fork Lift			2nd	89.0	2.0	3.7	T1-IC	HB	Cr	Fe	12033-L2002
					Oil	89.0	4.5	4.2	E-BC3	CR	Cr	Fe	12033-L2003
													12033-L2004
TD23	2,289	Truck	SDN31038ZX	4	1st	92.9	2.5	3.45	BF	SR	Cr	Fe	12033-02N00
		Caravan			2nd	92.9	2.0	4.0	T1-IC	CR	Cr	Fe	12033-02N10
		Atlas			Oil	92.9	4.0	4.35	E-BC16	SR	GN	GN	
TD25	2,494	Truck	SDN30198ZZ	4	1st	92.9	2.5	3.7	BF-K2	SR	GN	GN	12033-3S910
		Atlas			2nd	92.9	2.0	4.0	T1-IC	CR	Cr	Fe	
					Oil	92.9	3.0	3.25	E-BC16	SR	GN	GN	
TD25TI	2,494	Truck	SDN30198ZZ	4	1st	92.9	2.5	3.7	BF-K2	SR	GN	GN	12033-3S910
		Atlas			2nd	92.9	2.0	4.0	T1-IC	CR	Cr	Fe	
		Cedric			Oil	92.9	3.0	3.25	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
TD27	2,664	Homy Atlas Datsun Caravan	SDN31035ZX	4	1st	96.0	2.5	3.65	BF	SR	Cr	Fe	12033-43G11
					2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe	12033-43G10
					Oil	96.0	4.0	4.35	E-BC16	SR	GN	GN	
			SDN31056ZZ	4	1st	96.0	2.5	3.65	BF	SR	Cr	Fe	12033-6T010
					2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe	
					Oil	96.0	3.0	3.25	E-BC16	SR	GN	GN	
TD42 AD3	4,169	Datsun Jeep Safari Civillian	SDN31052ZX	6	1st	96.0	2.5	3.65	BF	SR	Cr	Fe	12033-06J10
					2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe	12033-06J11
					Oil	96.0	4.0	4.35	E-BC16	SR	GN	GN	
TD42-T	4,169	Safari Gran Road	SDN31065ZZ	6	1st	96.0	2.5	3.65	BF	SR	Cr	Fe	12033-06J15
					2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe	
					Oil	96.0	3.0	3.25	E-BC16	SR	GN	GN	
ED30	2,956	Truck Bison YC341 Caball YC341	SDN31015ZZ	4	1st	98.0	3.0	4.2	BF	HB	Cr	Fe	12033-J2002
					2nd	98.0	2.0	4.3	T1-IC	CR	Cr	Fe	12033-J2004
					3rd	98.0	2.0	4.3	T1	CR	Cr	Fe	12033-J2006
					Oil	98.0	4.5	4.4	E-BC3	CR	Cr	Fe	97011-02139
ED6 FD6	5,654	Truck Condor CM80 CM85 Bus R80 RM80	SDN31016ZZ	6	1st	100.0	3.0	4.2	BF	HB	Cr	Fe	12040-Z5025
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	12040-Z5026
					3rd	100.0	2.0	4.2	T1	CR	Cr	Fe	12040-Z5027
					Oil	100.0	4.5	4.5	E-BC3	CR	Cr	Fe	12040-Z5001(cyl)
FD6T	5,654	Truck Condor CM85 CK85	SDN31020ZZ	6	1st	100.0	3.0	4.2	BF-K1	HB	Cr	Fe	12040-Z5525
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	12040-Z5526
					3rd	100.0	2.0	4.2	T1	CR	Cr	Fe	12040-Z5501(cyl)
					Oil	100.0	4.5	4.5	E-BC3	CR	Cr	Fe	
			SDN31021ZZ	6	1st	100.0	3.0	4.2	BF-K2	HB	Cr	Fe	12033-Z5527
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	12033-Z5502(cyl)
					3rd	100.0	2.0	4.2	T1	CR	Cr	Fe	
					Oil	100.0	4.5	4.5	E-BC3	CR	Cr	Fe	
ED33	3,298	Truck Bison HMC341 Civillian GHMC341	SDN31025ZZ	4	1st	100.0	3.0	4.2	BF	HB	Cr	Fe	12033-J6500
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	12033-J6501
					Oil	100.0	4.5	4.5	E-BC3	CR	Cr	Fe	12033-T9000
													12033-Z5004(cyl)
FD6T(NEW)	5,654	Truck	SDN31026ZZ	6	1st	100.0	3.0	4.2	BF-K2	HB	Cr	Fe	12040-Z5528
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	12033-Z5504(cyl)
					Oil	100.0	4.5	4.5	E-BC3	CR	Cr	Fe	
FD6 ED6	5,654	Truck	SDN31029ZZ	6	1st	100.0	3.0	4.2	BF	HB	Cr	Fe	12040-Z5028
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	12040-Z5005
					Oil	100.0	4.5	4.5	E-BC3	CR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
FD33T	3,298	Datsun Truck	SDN31032ZZ	4	1st	100.0	3.0	4.2	BF-K2	HB	Cr	Fe	12033-T9307
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	100.0	4.5	4.5	E-BC3	CR	Cr	Fe	
ED33(NEW)	3,298	Datsun Truck	SDN31050ZZ	4	1st	100.0	2.0	4.0	BF	HB	Cr	Fe	12033-T9303
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	12033-T9306
					Oil	100.0	4.0	4.05	E-BC16	SR	Cr	Fe	12033-W4200
FD35	3,465	Condor	SDN31045ZX	4	1st	102.5	2.0	3.65	BF	SR	Cr	Fe	12033-01T10
					2nd	102.5	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	102.5	4.0	4.35	E-BC16	SR	GN	GN	
FD35T	3,465	Condor	SDN31057ZZ	4	1st	102.5	3.0	4.2	BF-K2	HB	Cr	Fe	12033-01T60
					2nd	102.5	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	102.5	4.0	4.35	E-BC16	SR	GN	GN	
ED35	3,465	Datsun Truck	SDN31051ZZ	4	1st	102.5	3.0	3.65	BF	SR	Cr	Fe	12033-56T10
					2nd	102.5	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	102.5	4.0	4.15	E-BC16	SR	Cr	Fe	
FM6T		Cargo Truck	SDN31061ZZ	6	1st	105.9	2.5	3.7	BF-K2	SR	GN	GN	12040-Z5508
					2nd	105.9	2.0	4.5	T1-IC	CR	Cr	Fe	
					Oil	105.9	4.0	4.35	E-BC16	SR	GN	GN	
FD42	4,214	Atlas Condor	SDN31079ZZ	4	1st	108.0	3.0	3.9	BF	SR	GN	GN	12033-0T011
					2nd	108.0	2.0	4.5	T1-IC	CR	Cr	Fe	
					Oil	108.0	4.0	4.4	E-BC16	SR	GN	GN	
FD46 FD46T	4,617	Condor Atlas	SDN30171ZZ	4	1st	108.0	2.5	3.7	BF-K2	SR	GN	GN	12033-31D03
					2nd	108.0	2.0	4.5	T1-IC	CR	Cr	Fe	
					Oil	108.0	3.0	3.25	E-BC16	SR	GN	GN	
FD46	4,617	Condor Atlas	SDN31064ZX	4	1st	108.0	3.0	4.05	BF	SR	Cr	Fe	12033-0T010
					2nd	108.0	2.0	4.5	T1-IC	CR	Cr	Fe	12033-0T000
					Oil	108.0	4.0	4.4	E-BC16	SR	GN	GN	
FE6T	6,925	MK250	SDN31036ZY	6	1st	108.0	3.0	4.3	BF-K2	HB	Cr	Fe	12040-Z5505
					2nd	108.0	2.0	4.5	T1-IC	CR	Cr	Fe	12040-Z5512
					Oil	108.0	4.0	4.4	E-BC16	SR	GN	GN	12040-Z5517
FE6	6,925	MK250	SDN31044ZX	6	1st	108.0	3.0	3.9	BF	SR	GN	GN	12040-Z5504
					2nd	108.0	2.0	4.5	T1-IC	CR	Cr	Fe	12040-Z5511
					Oil	108.0	4.0	4.4	E-BC16	SR	GN	GN	
FE6TA	6,925	MK250	SDN31054ZZ	6	1st	108.0	2.5	3.7	BF-K2	SR	GN	GN	12040-Z5519
					2nd	108.0	2.0	4.5	T1-IC	CR	Cr	Fe	12040-Z5560
					Oil	108.0	4.0	4.4	E-BC16	SR	GN	GN	12040-Z5561 12040-Z5603

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
FE6T-24V FE6TC	6,926	CWA214	SDN31067ZZ	6	1st	108.0	2.5	3.3	BF-K2	SR	GN	GN	12040-Z5608
					2nd	108.0	2.0	3.25	T1-IB	SR	Cr	Fe	
					Oil	108.0	3.0	3.25	E-BC16	SR	GN	GN	
UD3	3,076	Truck U680 TU680 DUG680 U681 Bus U690 UR690 NUR690 UG680	YDN31z005ZZ (1cyl)	1	1st	110.0	3.0	4.45	BF	HB	Fe	Fe	12040-90008
					2nd	110.0	3.0	4.45	BF	HB	Fe	Fe	
					3rd	110.0	3.0	4.2	T1	CR	Fe	Fe	
					4th	110.0	3.0	4.2	T1	CR	Fe	Fe	
					Oil 1	110.0	4.8	4.8	E-BC3	CR	Fe	Fe	
					Oil 2	110.0	4.8	4.8	E-BC3	CR	Fe	Fe	
UD4	4,941	Truck T80 T80S T80SD TC81 Bus R80 4R82 4RA82 RX102 4RA104											
UD5	6,177	Truck 5TWDC10 Bus 5R104 5RA104											
UD6	7,413	Truck 6TW1Z 6TW1ZS 6TW12SD Bus 6R110 6RA110											
UD8	9,822	Bus U8RA110											
UD12	14,825	WD38											
ND6	6,842	CK10 PRX102 For Industrial Machine	SDN31006ZX	6	1st	110.0	4.0	4.4	BF	CR	Cr	Fe	12040-95025
					2nd	110.0	3.0	4.4	T1	CR	Cr	Fe	12040-95005(cyl)
					Oil	110.0	5.0	4.95	E-BC16	SR	GN	GN	12040-95006 12040-90127 12040-95004(cyl)
ND6T	6,842	Bus	SDN31017ZZ	6	1st	110.0	4.0	4.4	BF-K1	HB	Cr	Fe	12040-90326
					2nd	110.0	3.0	4.4	T1	CR	Cr	Fe	12040-95003(cyl)
					Oil	110.0	5.0	4.7	E-BC3	HB	Cr	Fe	

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MITSUBISHI
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DAEWOO
HYUNDAI
KIA
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ASIA
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FORD
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EUROPE

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
NE6 NE6TA	7,412	U.S.A. Spec	SDN31031ZX	6	1st	110.0	3.0	4.1	BF-K2	SR	GN	GN	12040-95012
					2nd	110.0	2.5	4.0	T1-IC	CR	Cr	Fe	12040-95013
					Oil	110.0	4.0	4.35	E-BC16	SR	GN	GN	12040-95014
													12040-95016 12040-95029
GH5	4,675	Condor MK LK	SDN31075ZZ	4	1st	110.0	2.8	3.7	BF-K1	SR	GN	GN	52215-34346
					2nd	110.0	2.0	4.35	T1	CR	Cr	Fe	
					Oil	110.0	2.5	3.05	E-BC16	SR	GN	GN	
GH7	7,013	Condor PK PW	SDN31076ZZ	6	1st	110.0	2.8	3.7	BF-K1	SR	GN	GN	
					2nd	110.0	2.0	4.35	T1	CR	Cr	Fe	
					Oil	110.0	2.5	3.05	E-BC16	SR	GN	GN	
NS6TA NF6TA	9,160	CV32	SDN31060ZZ	6	1st	120.0	3.0	4.1	BF-K2	SR	GN	GN	12040-95501
					2nd	120.0	2.5	4.8	T1-IC	CR	Cr	Fe	
					Oil	120.0	4.0	4.4	E-BC16	SR	GN	GN	
GH11	10,836	Quon Truck GK Truck	SDN31074ZZ	6	1st	123.0	3.306	4.5	BF-K1-IB	SR	GN	GN	52213-56406
					2nd	123.0	2.5	4.3	T1-RB	SR	GN	GN	
					Oil	123.0	3.0	3.2	E-BC16	SR	GN	GN	
MD92TCI	9,203	Bus UA272 Truck Quon	SDN31053ZY	6	1st	125.0	2.5	4.3	BF-K2	SR	GN	GN	12040-Z6002
					2nd	125.0	2.0	4.3	T1-IB	SR	GN	GN	12040-Z6004
					Oil	125.0	3.0	3.1	E-BC16	SR	GN	GN	12040-Z6005
MD92	9,203	Condor	SDN31077ZZ	6	1st	125.0	2.0	4.1	BF-IB	SR	GN	GN	12040-Z6003(cyl)
					2nd	125.0	2.0	5.0	T1-IC	HB	Cr	Fe	
					Oil	125.0	3.0	3.25	E-BC16	SR	GN	GN	
PD6	10,308	CB20	SDN31007ZX	6	1st	125.0	5.0	5.2	BF	CR	Cr	Fe	12040-90026
		CK20			2nd	125.0	3.5	5.2	T1-IC	CR	Cr	Fe	12040-90029
		TK20			Oil	125.0	5.0	4.95	E-BC16	SR	GN	GN	12040-90125
		U20											12040-96007
		TFA21											12040-96009
		CD40											12040-96026
		CV40											12040-96127
		CW40											12040-96226
		PT81											12040-96000(cyl) 12040-96004(cyl)
PD6T	10,308	CW41	SDN31012ZX	6	1st	125.0	4.0	5.2	BF-K1	HB	Cr	Fe	12040-96125
		CK20			2nd	125.0	3.5	5.2	T1-IC	CR	Cr	Fe	12040-96129
		TK20			Oil	125.0	5.0	4.95	E-BC16	SR	GN	GN	12040-90228
		CD40											12000-96005(cyl)
		CV40											12040-96005(cyl)
		PT81											12040-96010(cyl)
PD6T	10,308	Bus Truck	SDN31042ZZ	6	1st	125.0	4.0	5.0	BF-K2	HB	Cr	Fe	12040-96013
					2nd	125.0	3.5	5.2	T1-IC	CR	Cr	Fe	
					Oil	125.0	5.0	4.8	E-BC16	CR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
GH13	12,777	Quon Tractor	SDN31073ZZ	6	1st	131.0	3.306	4.7	BF-K1-HB	SR	GN	GN	52212-53763
					2nd	131.0	2.5	4.7	T1-RC	SR	GN	GN	
					Oil	131.0	3.0	3.2	E-BC16	SR	GN	GN	
PE6	11,670	CK30 CK31 CV31 CD32 RB30 CB300	SDN31011ZZ	6	1st	133.0	4.0	5.2	BF-K1	HB	Cr	Fe	12040-90225
					2nd	133.0	3.5	5.5	T1-IC	CR	Cr	Fe	12040-90227
					Oil	133.0	6.0	5.7	E-BC3	CR	Cr	Fe	12040-96028
													12040-96128
													12040-96500(cyl) 12040-96503(cyl)
PE6T	11,670	CD45	SDN31022ZZ	6	1st	133.0	4.0	5.3	BF-K2	HB	Cr	Fe	12040-96225
					2nd	133.0	3.5	5.5	T1-IC	CR	Cr	Fe	12040-96228
					Oil	133.0	6.0	5.7	E-BC3	HB	Cr	Fe	12040-96512
													12040-96504(cyl) 12040-96509(cyl) 12040-96510(cyl) 12040-96513(cyl)
			SDN31041ZY	6	1st	133.0	3.0	5.2	BF-K2	HB	Cr	Fe	12040-96517
					2nd	133.0	2.5	5.5	T1-IC	CR	Cr	Fe	
					Oil	133.0	4.0	4.35	E-BC16	SR	GN	GN	
PF6	12,503	Truck	SDN31048ZZ	6	1st	133.0	2.5	4.7	BF-K2	SR	GN	GN	12040-96566
					2nd	133.0	2.5	5.5	T1-IC	CR	Cr	Fe	12040-96570
					Oil	133.0	4.0	4.05	E-BC16	SR	Cr	Fe	12040-96564(cyl)
RD8	14,313	Bus CD52 CW50 CW51 CW52 RA50 RA51 TWA52 WD151	SDN31013ZY	V8	1st	135.0	4.0	5.1	BF	HB	Cr	Fe	12040-90325
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	12040-97008
					Oil	135.0	6.0	5.7	E-BC16	CR	Cr	Fe	12040-97025
													12040-97026
													12040-97028
													12040-97126
													12040-97179
													12040-97226 12040-97228 12040-97007(cyl)
RD8T	14,313	Bus DA50 RA50 RA51	SDN31071ZZ	V8	1st	135.0	4.0	5.5	BF-K1	HB	Cr	Fe	12040-97109(cyl)
					2nd	135.0	3.0	5.4	T1-IC	HB	Cr	Fe	
					Oil	135.0	5.0	4.95	E-BC16	SR	Cr	Fe	
RD10	17,829	CK60 CW60 CW61 WD23 WD30	SDN31014ZZ	V10	1st	135.0	4.0	5.1	BF	HB	Cr	Fe	12040-97025
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	12040-97125
					Oil	135.0	6.0	5.7	E-BC3	CR	Cr	Fe	12040-97127
													12040-97227
													12040-90229 12040-97007(cyl)
RD10T	17,892	Truck Marine	SDN31072ZZ	V10	1st	135.0	4.0	5.5	BF-K1	HB	Cr	Fe	12040-97109(cyl)
					2nd	135.0	3.0	5.4	T1-IC	HB	Cr	Fe	
					Oil	135.0	5.0	4.95	E-BC16	SR	Cr	Fe	

Fit for UD TRUCKS NISSAN / UDトラックス (NISSAN DIESEL / 日産ディーゼル)

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
RD8T	14,313	Truck CV56	SDN31018ZZ	V8	1st	135.0	4.0	5.5	BF-K1	HB	Cr	Fe	12040-97128 12040-97008(cyl)
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	
					Oil	135.0	6.0	5.7	E-BC16	CR	Cr	Fe	
RE8	15,115	CW53 CD53 CW510	SDN31033ZZ	V8	1st	135.0	3.0	5.1	BF	HB	Cr	Fe	12040-97074
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	
					Oil	135.0	5.0	4.95	E-BC16	SR	Cr	Fe	
RE10	18,894		SDN31058ZZ	V10	1st	135.0	3.0	5.1	BF	HB	Cr	Fe	
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	
					Oil	135.0	5.0	4.95	E-BC16	SR	Cr	Fe	
GE13TD	13,074	Truck Big Thumb	SDN31063ZZ	6	1st	136.0	2.5	3.7	BF-K2	SR	GN	GN	12040-00Z07 12040-00Z0A
					2nd	136.0	2.0	3.7	T1-IB	HB	Cr	Fe	
					Oil	136.0	3.0	3.0	E-BC16	SR	GN	GN	
RF8	16,991	CD520	SDN31034ZZ	V8	1st	138.0	2.5	5.2	BF-IB	HB	Cr	Fe	12040-97072
					2nd	138.0	2.5	5.6	T1-IC	CR	Cr	Fe	
					Oil	138.0	4.0	4.65	E-BC16	SR	Cr	Fe	
		CD520 Big Thumb	SDN31034ZX	V8	1st	138.0	2.5	4.7	BF	SR	GN	GN	12040-97072
					2nd	138.0	2.5	5.6	T1-IC	CR	Cr	Fe	
					Oil	138.0	4.0	4.35	E-BC16	SR	GN	GN	
RF8T	16,991	CD520	SDN31068ZZ	V8	1st	138.0	3.0	4.7	BF-K2	SR	GN	GN	12040-97101
					2nd	138.0	2.5	5.6	T1-IC	CR	Cr	Fe	
					Oil	138.0	4.0	4.05	E-BC16	SR	GN	GN	
RF8Ti	16,991	Big Thumb	TCC-N-0295	V8	1st	138.0	2.5		BF-K2	SR	GN	GN	12040-ND000
					2nd	138.0	2.0		T1-IB	SR	GN	GN	
					Oil	138.0	4.0		E-BC16	SR	GN	GN	
RF10	21,239	Big Thumb	SDN31043ZZ	V10	1st	138.0	2.5	4.7	BF	SR	GN	GN	12040-97078
					2nd	138.0	2.5	5.6	T1-IC	CR	Cr	Fe	
					Oil	138.0	4.0	4.35	E-BC16	SR	GN	GN	
RG8	17,991	KL-CD53	SDN31059ZZ	V8	1st	142.0	3.0	4.7	BF	SR	GN	GN	12040-97107
					2nd	142.0	2.5	5.8	T1-IB	CR	Cr	Fe	
					Oil	142.0	4.0	4.35	E-BC16	SR	GN	GN	
			YDN31081ZZ (TCC-H-0097) (1cyl)	1	1st	142.0	2.5	4.3	BF	SR	GN	GN	12040-ND001
					2nd	142.0	2.0	4.7	T1-IB	SR	GN	GN	
					Oil	142.0	4.0	4.35	E-BC16	SR	GN	GN	
RH8	21,205	Tractor	YDN31055ZZ (cyl)	1	1st	150.0	3.0	4.7	BF	SR	GN	GN	12040-97106(cyl) 12040-97105(cyl)
RH10	26,507				2nd	150.0	2.5	5.6	T1-IC	CR	Cr	Fe	
					Oil	150.0	4.0	4.35	E-BC16	SR	GN	GN	
RH8	21,205	Tractor	YDN31080ZZ (TCC-H-0098) (1cyl)	1	1st	150.0	2.5	4.3	BF	SR	GN	GN	12040-ND003(cyl)
RH10	26,507				2nd	150.0	2.0	4.3	T1	SR	GN	GN	
		Bus			Oil	150.0	4.0	4.35	E-BC16	SR	GN	GN	

● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
LJ50	539	Carry Truck Carry Van	SBS20078ZZ	3	1st	61.0	1.2	2.45	K2	SR	Cr	Fe	12140-72811
					2nd	61.0	2.0	2.6	BF-K2	CR	Cr	Fe	12140-67011
F8A	797	New Jimny Carry Van	SWS20098ZZ	4	1st	62.0	1.5	2.8	BF	HB	Cr	Fe	12140-73010
					2nd	62.0	1.5	2.8	T1	CR	Fe	Fe	
					Oil	62.0	2.8	2.8	NIFF-S	SR	Cr	Fe	
F5A	543	Fronte 550	SWS20138ZZ	3	1st	62.0	1.5	2.8	BF	HB	Cr	Fe	12140-73000
					2nd	62.0	1.5	2.8	T1	CR	Fe	Fe	
					Oil	62.0	2.8	2.8	NIFF-S	SR	Cr	Fe	
F8A(NEW)	797	Jimny Carry Van	SWS20153ZZ	4	1st	62.0	1.2	2.25	BF-IB	SR	Cr	Fe	12140-85050
					2nd	62.0	1.2	2.5	TUC	CR	Fe	Fe	
					Oil	62.0	2.8	2.85	NIFF-S	SR	GN	GN	
F5A(NEW)	543	Fronte Cervo	SWS20184ZZ	3	1st	62.0	1.2	2.25	BF-IB	SR	Cr	Fe	12140-85050
					2nd	62.0	1.2	2.5	TUC	CR	Fe	Fe	
					Oil	62.0	2.8	2.85	NIFF-S	SR	GN	GN	
R06A	658	MR Wagon Wagon R Alto Carry Spacia Hustler Every	SWS20229ZZ (TCC-N-0701)	3	1st	64.0	1.0	2.1	BF-IB	SR	GN	GN	12140-55S00
					2nd	64.0	1.0	2.1	TUC	SR	Fe	Fe	
					Oil	64.0	2.0	1.95	NIFF-H	SR	GN	GN	
F6A	657	Alto Van Cervo	SWS20128ZZ	3	1st	65.0	1.2	2.3	BF-IB	SR	GN	GN	12140-51E50
					2nd	65.0	1.5	2.7	TUC	CR	Fe	Fe	
					Oil	65.0	2.5	2.5	NIFF-H	SR	GN	GN	
		Alto Works RS/R AZ Wagon Kei	SWS20211ZZ	3	1st	65.0	1.2	2.3	BF-IB	SR	GN	GN	12140-50E50
					2nd	65.0	1.2	2.7	TUC	CR	Fe	Fe	
					Oil	65.0	2.5	2.5	NIFF-H	SR	GN	GN	
F6A-N	657	Alto Cuppuccino Cara Carry Every Jimny	SWS20220ZZ	3	1st	65.0	1.0	2.25	BF-IB	SR	Cr	Fe	12140-51F10
					2nd	65.0	1.2	2.75	T1	CR	Fe	Fe	
					Oil	65.0	2.0	2.55	NIFF-H	SR	GN	GN	
F10A	970	Jimny	SWS20106ZZ	4	1st	65.5	1.5	2.5	BF	SR	GN	GN	12140-75111
					2nd	65.5	1.5	2.7	T1	CR	Fe	Fe	12140-75110(cyl)
					Oil	65.5	2.8	2.8	NIFF-H	SR	Cr	Fe	
K6A	658	Alto Jimny Kei	SWS20200ZZ	3	1st	68.0	1.0	2.25	BF-IB	SR	Cr	Fe	12140-73601
					2nd	68.0	1.2	2.5	TUC	CR	Fe	Fe	
					Oil	68.0	2.0	2.3	NIFF-H	SR	Cr	Fe	
K10A	996	Alto Works	SWS20206ZZ	4	1st	68.0	1.0	2.25	BF-IB	SR	Cr	Fe	12140-73G01-000
					2nd	68.0	1.2	2.5	TUC	CR	Fe	Fe	
					Oil	68.0	2.0	2.3	NIFF-H	SR	Cr	Fe	

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Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
SS80 Y64 Y65	796	Alto Fronte	SWS20120ZZ	3	1st	68.5	1.5	2.8	BF	HB	Cr	Fe	12140-78410
					2nd	68.5	1.5	2.8	T1	CR	Fe	Fe	12140-78411(cyl)
					Oil	68.5	2.8	2.88	NIFF-H	SR	GN	GN	
F8D	796	Alto	SWS20221ZZ	3	1st	68.5	1.2	2.65	BF-IB	SR	Cr	Fe	12140M84400
					2nd	68.5	1.5	2.8	T1	CR	Fe	Fe	
					Oil	68.5	2.5	2.25	NIFF-H	SR	Cr	Fe	
F10D	1,061	Maruti Zen Estilo Suzuki/Maruti Alto Wagon R	SWS20225ZZ	4	1st	68.5	1.0	2.5	BF-IB	SR	GN	GN	12140M79G60-000
					2nd	68.5	1.2	2.7	TUC	CR	Fe	Fe	
					Oil	68.5	2.0	2.55	NIFF-H	SR	GN	GN	
K12A	1,197	Swift	SWS20205ZZ	4	1st	71.0	1.0	2.5	BF-IB	SR	GN	GN	12140-75F30-000
					2nd	71.0	1.2	2.8	TUC	CR	Cr	Fe	
					Oil	71.0	2.0	2.5	NIFF-H	SR	GN	GN	
G10	993	Cultus Forsa Swift	SWS20209ZZ	4	1st	72.0	1.2	2.7	BF-IB	SR	GN	GN	12140-72F00
					2nd	72.0	1.5	3.2	TUC	CR	Fe	Fe	
					Oil	72.0	2.8	2.8	NIFF-H	SR	GN	GN	
K10B	996	Splash Alto Wagon R Multi Suzuki	SWS20223ZZ	3	1st	73.0	1.0	2.3	BF-IB	SR	GN	GN	12140B58M50N000
					2nd	73.0	1.2	2.55	TUC	CR	Fe	Fe	
					Oil	73.0	2.0	2.2	NIFF-H	SR	GN	GN	
G10	993	Swift Cultus	SWS20144ZZ	3	1st	74.0	1.2	2.7	BF	SR	GN	GN	12140-82161
					2nd	74.0	1.5	3.2	T1-IB	CR	Cr	Fe	
					Oil	74.0	2.8	2.8	NIFF-H	SR	GN	GN	
	993	Cultus	SWS20131ZZ	3	1st	74.0	1.2	2.8	BF	SR	Cr	Fe	12140-82001(cyl)
					2nd	74.0	1.5	3.2	T1	CR	Fe	Fe	12140-82050(cyl)
					Oil	74.0	2.8	2.8	NIFF-H	SR	GN	GN	12140-82051(cyl)
	993	Cultus	SWS20185ZZ	3	1st	74.0	1.2	2.7	BF-IB	SR	GN	GN	12140-63E50
					2nd	74.0	1.2	3.2	TUC	CR	Fe	Fe	
					Oil	74.0	2.5	2.85	NIFF-S	SR	GN	GN	
G13A G13BA	1,298	Cultus	SWS20141ZZ	4	1st	74.0	1.2	2.8	BF	SR	Cr	Fe	12140-82001(cyl)
					2nd	74.0	1.5	3.2	T1	CR	Fe	Fe	12140-82050(cyl)
					Oil	74.0	2.8	2.8	NIFF-H	SR	GN	GN	12140-82051(cyl)
		Swift	SWS20143ZZ	4	1st	74.0	1.2	2.85	BF-IB	SR	Cr	Fe	12140-82010
					2nd	74.0	1.5	3.2	T1-IB	CR	Fe	Fe	
					Oil	74.0	2.8	2.55	NIFF-S	SR	Cr	Fe	
G13B G13BB	1,298	Swift	SWS20186ZZ	4	1st	74.0	1.2	2.7	BF-IB	SR	GN	GN	12140-63E50
					2nd	74.0	1.2	3.2	TUC	CR	Fe	Fe	
					Oil	74.0	2.5	2.85	NIFF-S	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference	
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower		
G16A G16B	1,590	Escudo	SWS20142ZZ	4	1st	75.0	1.2	2.7	BF-IB	SR	GN	GN	12140-60A50	
					2nd	75.0	1.5	3.2	TUC	CR	Fe	Fe		
					Oil	75.0	2.8	2.8	NIFF-S	SR	GN	GN		
			SWS20190ZZ	4	1st	75.0	1.2	2.7	BF-IB	SR	GN	GN	12140-61G50 12140-61G00(cyl)	
					2nd	75.0	1.2	2.8	TUC	CR	Fe	Fe		
					Oil	75.0	2.5	2.45	NIFF-H	SR	GN	GN		
G15A	1,493	APV	SWS20217ZZ	4	1st	75.0	1.2	2.7	BF-IB	SR	GN	GN	12140-61J00	
G16A	1,590				2nd	75.0	1.2	3.15	TUC	CR	Fe	Fe		
					Oil	75.0	2.5	2.25	NIFF-H	SR	GN	GN		
M13A	1,328	Swift Jimny	SWS20199ZZ	4	1st	78.0	1.2	2.85	BF-IB	SR	Cr	Fe		
					2nd	78.0	1.5	3.2	TUC	CR	Fe	Fe		
					Oil	78.0	2.8	2.6	NIFF-S	SR	Cr	Fe		
M13A	1,328	Swift Solio	SWS20196ZY	4	1st	78.0	1.2	2.7	BF-IB	SR	GN	GN	12140-54GA0	
M15A	1,490	Chevrolet MW Aerio SX-4			2nd	78.0	1.2	3.0	TUC	CR	Fe	Fe		
					Oil	78.0	2.5	2.45	NIFF-H	SR	GN	GN		
H20A	1,998	Escudo Vitarā	SWS20228ZZ	V6	1st	78.0	1.2	2.7	BF-IB	SR	GN	GN	12140-85FA0	
					2nd	78.0	1.5	3.2	TUC	CR	Fe	Fe		
					Oil	78.0	2.5	2.75	NIFF-H	SR	GN	GN		
J18 J18A	1,840	Estreem Cultus	SWS20178ZZ	4	1st	84.0	1.2	2.9	BF-IB	SR	GN	GN	12140-77E00	
							2nd	84.0	1.5	3.55	TUC	CR		Cr
J20 J20A	1,995	Escudo Aerio			Oil	84.0	2.5	2.85	NIFF-S	SR	GN	GN		
J20B	1,995	SX-4	SWS20216ZZ	4	1st	84.0	1.2	2.5	BF-IB	SR	GN	GN	12140-65J00	
					2nd	84.0	1.2	3.0	TUC	CR	Cr	Fe		
					Oil	84.0	2.5	2.45	NIFF-H	SR	GN	GN		
H25A	2,494	Escudo	SWS20207ZZ	V6	1st	84.0	1.2	2.9	BF-IB	SR	GN	GN	12140-86FA0	
					2nd	84.0	1.5	3.55	TUC	CR	Cr	Fe		
					Oil	84.0	2.5	2.85	NIFF-S	SR	GN	GN		
H27A	2,736	Escude	SWS20210ZZ	V6	1st	88.0	1.2	3.3	BF-IB	SR	GN	GN	12140-52D00-00	
					2nd	88.0	1.5	3.3	TUC	CR	Cr	Fe		
					Oil	88.0	2.8	2.85	NIFF-S	SR	GN	GN		
J24B	2,393	Escude	SWS20215ZZ	4	1st	92.0	1.2	3.1	BF-IB	SR	GN	GN	12140-78K00	
					2nd	92.0	1.0	3.1	TUC	SR	Fe	Fe		
					Oil	92.0	2.0	2.55	NIFF-H	SR	GN	GN		

● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
1SZ	997	Vitz	SWT10201ZZ	4	1st	69.0	1.2	2.25	BF	SR	Cr	Fe	13011-23040
					2nd	69.0	1.2	2.8	TUC	CR	Fe	Fe	13011-23041
					Oil	69.0	2.0	2.2	NIFF-H	SR	GN	GN	
1E-L	999	Starlet	SWT10104ZZ	4	1st	70.5	1.5	2.7	BF-IB	SR	GN	GN	13011-10070
					2nd	70.5	1.5	2.9	T1	CR	Fe	Fe	13011-10080
					Oil	70.5	3.0	3.05	NIFF-S	SR	GN	GN	13011-10081
1KR-FE	996	iQ Passo Boon Vitz	SWT10223ZZ	3	1st	71.0	1.0	2.3	BF	SR	Cr	Fe	13011-40030A
					2nd	71.0	1.0	2.3	TUC	SR	Fe	Fe	13011-40050
					Oil	71.0	1.5	2.2	NIFF-H	SR	Cr	Fe	13011-40051 13011-40052
1KR-VE	998	Agya Wigo	SWT10265ZZ	3	1st	71.0	1.0	2.3	BF-IB	SR	GN	GN	13011-BZ150
					2nd	71.0	1.0	2.3	TUC	SR	Fe	Fe	
					Oil	71.0	2.0	2.2	NIFF-H	SR	GN	GN	
K3-VE 2SZ	1,297	bB	SWT10220ZZ	4	1st	72.0	1.2	2.3	BF	SR	GN	GN	13011-BZ010
					2nd	72.0	1.2	2.6	TUC	CR	Fe	Fe	13011-23060
					Oil	72.0	2.0	2.25	NIFF-H	SR	GN	GN	
2K	993	Publica Starlet	SWT10029ZZ	4	1st	72.0	2.0	3.4	T1	CR	Cr	Fe	13011-12030
					2nd	72.0	2.0	3.4	T1	CR	Fe	Fe	13011-12010
					Oil	72.0	4.0	3.8	NIFF-S	SR	Cr	Fe	13011-12031
3SZ-VE	1,495	Rush bB Town Ace Lite Ace Avanza	SWT10219ZZ	4	1st	72.0	1.2	2.5	BF-IB	SR	GN	GN	13011-BZ110
					2nd	72.0	1.2	2.3	TUC	HB	Fe	Fe	13011-BZ1040
					Oil	72.0	2.0	2.25	NIFF-H	SR	GN	GN	
2SZ-FE	1,296	Vitz	SWT10238ZZ	4	1st	72.0	1.0	2.25	BF-IB	SR	Cr	Fe	13011-23073
					2nd	72.0	1.0	2.3	TUC	SR	Fe	Fe	
					Oil	72.0	1.5	2.0	NIFF-H	SR	Cr	Fe	
1NR-FE	1,329	iQ Corolla Yaris	SWT10251ZZ	4	1st	72.5	1.0	2.3	BF-IB	SR	GN	GN	13011-47031
					2nd	72.5	1.0	2.3	TUC	SR	Fe	Fe	
					Oil	72.5	1.5	2.0	NIFF-H	SR	Cr	Fe	
		Corolla Yaris	SWT10250ZZ	4	1st	72.5	1.0	2.3	BF-IB	SR	GN	GN	13011-47033
					2nd	72.5	1.0	2.3	TUC	SR	Fe	Fe	
					Oil	72.5	2.0	2.25	NIFF-H	SR	GN	GN	
3NR-FE 3NR-VE	1,197	Agya Etios Yaris	SWT10252ZZ	4	1st	72.5	1.0	2.45	BF-IB	SR	Cr	Fe	04130-47010
					2nd	72.5	1.0	2.3	TUC	SR	Fe	Fe	
					Oil	72.5	2.0	2.55	NIFF-H	SR	Cr	Fe	
2E-LU 2E-ELU	1,295	Corolla Starlet Sprinter	SWT10105ZZ	4	1st	73.0	1.5	2.7	BF-IB	SR	GN	GN	13011-11040
					2nd	73.0	1.5	3.1	TUC	CR	Fe	Fe	13011-11041
					Oil	73.0	3.0	3.05	NIFF-S	SR	GN	GN	13011-11060 13011-11061
3E 3E-E	1,456	Tercel Corsa	SWT10143ZZ	4	1st	73.0	1.5	2.65	BF	SR	Cr	Fe	13011-11090
					2nd	73.0	1.5	3.1	TUC	CR	Fe	Fe	13011-11061
					Oil	73.0	3.0	3.0	NIFF-S	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
4E-FE	1,331	Corolla Starlet Sprinter Tercel Corsa	SWT10128ZZ	4	1st	74.0	1.2	2.7	BF	SR	Cr	Fe	13011-11122
					2nd	74.0	1.2	3.1	TUC	CR	Fe	Fe	13011-11140
					Oil	74.0	3.0	2.85	NIFF-H	SR	GN	GN	13011-11160
5E-FE	1,496												
K	1,077	Publica Starlet	SWT10052ZY	4	1st	75.0	2.0	3.6	BF	CR	Cr	Fe	13011-22011
3K	1,166	Sprinter Corolla			2nd	75.0	2.0	3.6	T1	CR	Fe	Fe	13011-24010
		Corona			Oil	75.0	4.0	3.05	NIFF-S	SR	Cr	Fe	13011-24011 13011-24012
4K	1,290	Daihatsu Charman											13011-24020 13011-24030
4K-E	1,290	Corolla Starlet Sprinter	SWT10109ZZ	4	1st	75.0	1.5	3.05	BF	SR	Cr	Fe	13011-13010
1G-EU	1,988	Soarer Crown Mark II Chaser Cresta	SWT10073ZX	6	2nd	75.0	1.5	3.4	T1	CR	Fe	Fe	13011-13060
					Oil	75.0	4.0	3.05	NIFF-S	SR	GN	GN	
1G-FE	1,988	Crown Mark II Chaser Cresta	SWT10170ZZ	6	1st	75.0	1.2	2.5	BF	SR	Cr	Fe	13011-70110
1G-GEU	1,988	Altezza Crown Cresta Supra Soarer Chaser Mark II	SWT10212ZZ	6	2nd	75.0	1.2	3.05	BF-IB	SR	Cr	Fe	
					Oil	75.0	1.5	3.2	TUC	CR	Cr	Fe	13011-88300
						75.0	2.8	2.8	NIFF-S	SR	Cr	Fe	
1NZ-FE 2NZ-FE	1,496 1,298	Vitz Ist Porte Corolla Funcargo	SWT10192ZZ	4	1st	75.0	1.2	2.5	BF	SR	GN	GN	13011-21050
2NZ-FE	1,298	Yaris Vitz Funcargo	SWT10211ZZ	4	2nd	75.0	1.2	2.8	TUC	CR	Fe	Fe	13011-21041
					Oil	75.0	2.0	2.2	NIFF-H	SR	GN	GN	
1NZ-FXE	1,497	Prius	SDT10222ZZ	4	1st	75.0	1.2	2.5	BF	SR	GN	GN	13011-21060
			SWT10229ZY	4	2nd	75.0	1.2	2.8	TUC	CR	Fe	Fe	
					Oil	75.0	2.0	2.75	E-BC16	SR	GN	GN	13011-21030 13011-21070
	1,496	Prius Aqua Vitz/Yaris Corolla Fielder	SWT10273ZZ (TCC-S-0861)	4	1st	75.0	1.0	2.3	BF	SR	GN	GN	13011-21100 13011-21130
					2nd	75.0	1.0	2.3	T1	SR	Cr	Fe	
					Oil	75.0	2.0	2.5	NIFF-H	SR	GN	GN	13011-21111

DAIHATSU
SUBARU
HINO
HONDA
ISUZU
KOMATSU
MAZDA
MITSUBISHI
NISSAN
UD TRUCKS
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DAEWOO
HYUNDAI
KIA
CHINA
ASIA
CHRYSLER
FORD
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EUROPE

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
1NZ-FE-2	1,497	Corolla Premio Vitz Auris	SWT10253ZZ	4	1st 2nd Oil	75.0	1.0	2.3	BF TUC NIFF-H	SR CR SR	GN Fe GN	GN Fe GN	13011-21091
						75.0	1.2	2.8			Fe	Fe	
						75.0	2.0	2.5			GN	GN	
1NZ-FE	1,497	Corolla Premio Allion	SWT10256ZZ	4	1st 2nd Oil	75.0	1.0	2.3	BF TUC NIFF-H	SR CR SR	GN Fe Cr	GN Fe Fe	13011-21080
						75.0	1.2	2.8			Cr	Fe	
						75.0	1.5	2.0			Fe	Fe	
2A-U 2A-LU	1,295	Tercel Corsa Corolla	SWT10068ZX	4	1st 2nd Oil	76.0	2.0	2.85	BF T1 NIFF-S	SR CR SR	Cr Fe Cr	Fe Fe Fe	13011-14010 13011-14020 13011-14021
						76.0	2.0	3.7			Fe	Fe	
						76.0	4.0	3.0			Cr	Fe	
3P 4P	1,350	Hi Ace Corona Van Toyo Ace	SWT10009ZZ	4	1st 2nd Oil	76.6	2.0	3.5	T1 T1 NIFF-S	CR CR SR	Cr Fe Cr	Fe Fe Fe	13011-23030
						76.6	2.0	3.5			Fe	Fe	
						76.6	4.0	3.3			Cr	Fe	
1A-U 3A-U	1,452	Corona Tercel Corolla Sprinter Corsa	SWT10078ZX	4	1st 2nd Oil	77.5	1.5	2.85	BF T1 NIFF-S	SR CR SR	Cr Fe Cr	Fe Fe Fe	13011-15010 13011-15011 13011-15020 13011-15021 13011-15031
						77.5	1.5	3.4			Fe	Fe	
						77.5	2.8	2.8			Cr	Fe	
2R	1,490	Corona Stout Hi Lux Toyo Ace Bus	SWT10014ZZ	4	1st 2nd Oil	78.0	2.0	3.7	T1 TUC NIFF-S	CR CR SR	Cr Cr Cr	Fe Fe Fe	13011-31010 13011-31030 13011-31040
						78.0	2.5	3.6			Cr	Fe	
						78.0	4.0	3.05			Cr	Fe	
5A	1,498	Corolla Sprinter Carina	SWT10161ZZ	4	1st 2nd Oil	78.7	1.5	2.65	BF T1 NIFF-S	SR CR SR	Cr Fe Cr	Fe Fe Fe	13011-15050
						78.7	1.5	3.5			Fe	Fe	
						78.7	3.0	2.8			Cr	Fe	
5A-F 5A-FE	1,498	Corolla	SWT10181ZZ	4	1st 2nd Oil	78.7	1.2	2.85	BF T1 NIFF-S	SR CR SR	Cr Fe Cr	Fe Fe Fe	13011-15100 13011-15120
						78.7	1.5	3.5			Fe	Fe	
						78.7	3.0	2.8			Cr	Fe	
8A-FE	1,342	Vios	SWT10266ZZ	4	1st 2nd Oil	78.7	1.2	2.7	BF T1 NIFF-S	SR CR SR	GN Fe GN	GN Fe GN	13011-15130
						78.7	1.5	3.0			Fe	Fe	
						78.7	3.0	2.7			GN	GN	
1ZZ-FE	1,794	Corolla Vista	SWT10183ZZ	4	1st 2nd Oil	79.0	1.2	2.65	BF TUC NIFF-S	SR CR SR	Cr Fe Cr	Fe Fe Fe	13011-22030 13011-22040 13011-22100 13011-22111 13011-22200 13011-22220 13011-22221 13011-22230 13011-22090 13011-0D010
						79.0	1.2	3.2			Fe	Fe	
						79.0	3.0	2.55			Cr	Fe	
3ZZ-FE	1,598	Corolla Avensis	SWT10183ZY	4	1st 2nd Oil	79.0	1.2	2.7	BF TUC NIFF-S	SR CR SR	GN Fe GN	GN Fe GN	13011-22140
						79.0	1.2	3.2			Fe	Fe	
						79.0	3.0	2.55			GN	GN	
3ZZ-FE	1,598	Corolla Avensis	SDT10267ZZ	4	1st 2nd Oil	79.0	1.2	2.7	BF TUC E-BC16	SR SR SR	GN Fe GN	GN Fe GN	13011-22240
						79.0	1.2	2.9			Fe	Fe	
						79.0	2.0	2.75			GN	GN	
T	1,407	Corolla 1400 Carina 1400 Sprinter	SWT10039ZZ	4	1st 2nd Oil	80.0	2.0	3.8	BF T1 NIFF-S	CR CR SR	Cr Fe Cr	Fe Fe Fe	13011-25010 13011-25020 13011-25032 13011-25041
						80.0	2.0	3.8			Fe	Fe	
						80.0	4.0	3.8			Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
12R 12R-J	1,587	Corona Hi Lux Hi Ace Toyo Ace	SWT10042ZX	4	1st	80.5	2.0	3.1	BF	SR	GN	GN	13011-31050
					2nd	80.5	2.0	3.7	T1	CR	Fe	Fe	13011-31051
					Oil	80.5	4.0	3.75	NIFF-S	SR	Cr	Fe	13011-31060 13011-31061 13011-31070 13011-31090
1S-U	1,832	Carina Cerica Mark II Chaser Cresta	SWT10080ZZ	4	1st	80.5	1.5	3.25	BF	SR	Cr	Fe	13011-63010
					2nd	80.5	1.5	3.65	T1	CR	Fe	Fe	13011-63011
					Oil	80.5	4.0	3.25	NIFF-S	SR	Cr	Fe	13011-63020 13011-63030 13011-63031
5K 5K-U 5K-J	1,496	Corona Van Corolla Van Carina Van Lite Ace Van Town Ace Van	SWT10099ZZ	4	1st	80.5	1.5	3.1	BF	SR	GN	GN	13011-13040
					2nd	80.5	1.5	3.65	T1	CR	Fe	Fe	13011-13050
					Oil	80.5	4.0	3.25	NIFF-S	SR	GN	GN	13011-13090
7K-E	1,781	Lite Ace Van Town Ace Van Town Ace Lite Ace Truck	SWT10169ZY	4	1st	80.5	1.5	3.1	BF	SR	GN	GN	13011-13100
					2nd	80.5	1.5	3.6	TUC	CR	Cr	Fe	13011-13110
					Oil	80.5	4.0	2.55	NIFF-S	SR	GN	GN	13011-13120
1ZR-FE	1,598	Corolla Premio	SWT10232ZZ	4	1st	80.5	1.0	2.9	BF-IB	SR	GN	GN	13011-37160
2ZR-FE	1,797	Ist			2nd	80.5	1.0	2.5	TUC	SR	Fe	Fe	13011-37140
		Noah			Oil	80.5	1.5	1.95	NIFF-H	SR	Cr	Fe	13011-37090 13011-37130
3ZR-FE 3ZR-FAE	1,986	Voxy	SDT10257ZZ	4	1st	80.5	1.2	2.9	BF-IB	SR	GN	GN	13011-37210
		RAV4			2nd	80.5	1.0	2.5	TUC	SR	Fe	Fe	
		Corolla			Oil	80.5	2.0	2.75	E-BC16	SR	GN	GN	
		Lexus NX	SWT10269ZZ	4	1st	80.5	1.2	2.7	BF	SR	GN	GN	13011-37330
		C-HR			2nd	80.5	1.0	2.5	TUC	SR	Fe	Fe	
2ZR-FE	1,797	Avensis	SDT10268ZZ	4	Oil	80.5	2.0	2.2	NIFF-H	SR	GN	GN	13011-0T060
		Voxy											
		Noah											
M20A-FKS	1,986	Corolla AXIO	SWT10271ZZ (TCC-Q-0785)	4	1st	80.5	1.2	2.7	BF	SR	GN	GN	13011-24040
		Corolla Fielder			2nd	80.5	1.2	2.7	TUC	SR	Fe	Fe	13011-F2010
		Auris			Oil	80.5	2.0	2.2	NIFF-H	SR	GN	GN	23011-F2010
		Allion											
		Premio											
		Yaris											
		Matrix											
		Scion XD											

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
4A-L 4A-LC 4A-GEU	1,587	Corolla	SWT10108ZZ	4	1st	81.0	1.5	3.1	BF	SR	Cr	Fe	13011-16010
		Sprinter			2nd	81.0	1.5	3.5	TUC	CR	Fe	Fe	13011-16011
		Trueno			Oil	81.0	2.8	2.8	NIFF-H	SR	GN	GN	13011-16031
		Corolla Levin											13011-16032
		Corona GT											13011-16030
		Carina GT											13011-16050
													13011-16070
4A-F 4A-FE	1,587	Corolla	SWT10142ZZ	4	1st	81.0	1.5	2.7	BF	SR	GN	GN	13011-16140
		Sprinter			2nd	81.0	1.5	3.4	T1	CR	Fe	Fe	13011-16150
		Carina			Oil	81.0	3.0	2.85	NIFF-H	SR	GN	GN	13011-16120
		Corona Premio											
4A-GZELU	1,587	Corolla Levin	SWT10145ZZ	4	1st	81.0	1.5	3.1	BF	SR	GN	GN	13011-16050
		Sprinter Trueno			2nd	81.0	1.5	3.4	TUC	CR	Cr	Fe	13011-16090
					Oil	81.0	2.8	2.8	NIFF-H	SR	GN	GN	13011-16180
4A-GEU	1,587	Corolla Levin	SWT10101ZZ	4	1st	81.0	1.5	3.1	BF	SR	Cr	Fe	13011-16050
		Sprinter Trueno			2nd	81.0	1.5	3.5	TUC	CR	Fe	Fe	13011-16070
		Carina GT			Oil	81.0	2.8	2.8	NIFF-H	SR	GN	GN	13011-16090
			SWT10150ZZ	4	1st	81.0	1.2	2.9	BF	SR	GN	GN	13011-16200
					2nd	81.0	1.5	3.4	TUC	CR	Cr	Fe	
					Oil	81.0	2.8	2.8	NIFF-S	SR	GN	GN	
4A-FE 7A-FE	1,587	Corolla	SWT10156ZZ	4	1st	81.0	1.2	2.9	BF	SR	GN	GN	13011-16280
		Carina			2nd	81.0	1.5	3.4	T1	CR	Fe	Fe	13011-16290
	1,762	Premio			Oil	81.0	3.0	2.85	NIFF-H	SR	GN	GN	13011-16300
		Sprinter											13011-16320
		Caldina											13011-16340
2ZZ-FE 2ZZ-GE	1,796	Corolla	SWT10196ZZ	4	1st	82.0	1.2	2.85	BF	SR	Cr	Fe	13011-88601
		Allex			2nd	82.0	1.2	3.05	TUC	CR	Fe	Fe	
					Oil	82.0	3.0	3.2	NIFF-S	SR	Cr	Fe	
4S	1,838	Caldina	SWT10123ZZ	4	1st	82.5	1.5	3.05	BF	SR	Cr	Fe	13011-74110-1
		Camry			2nd	82.5	1.5	3.8	T1	CR	Fe	Fe	13011-74120-1
		Vista			Oil	82.5	4.0	2.9	NIFF-S	SR	Cr	Fe	13011-74121-1
5M 5M-E 5M-EU	2,759	Celica XX	SWT10072ZX	6	1st	83.0	2.0	3.05	BF	SR	Cr	Fe	13011-43010
		Crown			2nd	83.0	2.0	3.8	T1	CR	Fe	Fe	13011-43030
					Oil	83.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
5M-GE 5M-EU	2,759	Crown	SWT10079ZZ	6	1st	83.0	1.5	3.1	BF	SR	GN	GN	13011-43050
		Soarer 2800GT			2nd	83.0	1.5	3.8	T1	CR	Fe	Fe	13011-43080
		Celica XX			Oil	83.0	4.0	2.9	NIFF-S	SR	Cr	Fe	
7M-GE 7M-GTE	2,954	Soarer	SWT10115ZY	6	1st	83.0	1.5	3.1	BF	SR	GN	GN	13011-42010
		Crown			2nd	83.0	1.5	3.7	TUC	HB	Cr	Fe	13011-42011
					Oil	83.0	4.0	2.85	NIFF-S	SR	GN	GN	
4GR-E30	2,499	Crown	SDT10225ZZ	V6	1st	83.0	1.2	2.7	BF	SR	GN	GN	13011-31220
		Mark X			2nd	83.0	1.2	2.7	B1-TUC	SR	Cr	Fe	13011-31260
		Lexus IS250			Oil	83.0	2.0	2.75	E-BC16	SR	GN	GN	13011-31270

[illegible]

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
1Y	1,626	Master Ace Hi Ace Wagon	SWT10090ZY	4	1st	86.0	1.5	3.45	BF	SR	Cr	Fe	13011-71010
					2nd	86.0	1.5	4.0	T1	CR	Cr	Fe	13011-71020
2Y	1,812	Town Ace			Oil	86.0	4.0	3.25	NIFF-S	SR	Cr	Fe	13011-71030
		Lite Ace											13011-72020
3Y	1,998	Mark II Van											13011-74070-A
		Vista											13011-74072
3S-FE	1,998	Camry											13011-74091
		Carina											13011-74280
		Corona											13011-74080
													13011-74081
1Y(NEW)	1,626	Lite Ace	SWT10090ZX	4	1st	86.0	1.5	3.3	BF	SR	GN	GN	13011-71033
		Town Ace			2nd	86.0	1.5	4.0	T1	CR	Cr	Fe	13011-71042
2Y(NEW)	1,812	Mark II			Oil	86.0	4.0	3.05	NIFF-S	SR	GN	GN	
		Corona											
3Y(NEW)	1,998												
3S-F 3S-FE	1,998	Ipsium	SWT10119ZZ	4	1st	86.0	1.5	3.25	BF	SR	Cr	Fe	13011-74070
		Vista			2nd	86.0	1.5	3.8	T1	CR	Fe	Fe	13011-74072
		Camry			Oil	86.0	4.0	3.25	NIFF-S	SR	Cr	Fe	13011-74080
		Corona											13011-74081
1AZ-FE 1AZ-FSE	1,998	RAV 4	SWT10186ZZ	4	1st	86.0	1.2	2.7	BF	SR	GN	GN	13011-28120
		Corolla Runx			2nd	86.0	1.2	3.1	TUC	CR	Fe	Fe	
		Premio			Oil	86.0	2.0	2.5	NIFF-H	SR	GN	GN	
		Allion											
		Caldina											
		Wish	SWT10176ZY	4	1st	86.0	1.2	2.9	BF	SR	GN	GN	13011-28130
		Avencis			2nd	86.0	1.2	2.9	TUC	SR	GN	GN	
		Noah			Oil	86.0	3.0	2.75	NIFF-S	SR	GN	GN	
1TR-FE 1AZ-FSE(D4)	1,998	Hi Ace Van	SDT10185ZZ	4	1st	86.0	1.2	2.7	BF	SR	GN	GN	13011-75100
		Toyo Ace			2nd	86.0	1.2	3.1	TUC	CR	Fe	Fe	13011-28200
		Hi Ace			Oil	86.0	2.0	2.75	E-BC16	SR	GN	GN	
		Dyna											
1RZ-FE	1,998	Hi Ace	SWT10125ZZ	4	1st	86.0	1.75	3.3	BF	SR	GN	GN	13011-75020
					2nd	86.0	1.5	3.05	TUC	SR	Cr	Fe	13011-75080
					Oil	86.0	4.0	2.8	NIFF-S	SR	GN	GN	
1JZ-GE	2,491	Crown	SWT10134ZZ	6	1st	86.0	1.5	3.3	BF	SR	GN	GN	13011-46040
		Aristo			2nd	86.0	1.5	3.8	TUC	CR	Cr	Fe	13011-46041
		Supra			Oil	86.0	4.0	2.9	NIFF-S	SR	GN	GN	13011-46050
		Soarer											
2JZ-GE 2JZ-GTE	2,997	Lexus GS300											
		Mark II											
		Chaser											
		Cresta											

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
1JZ-GE	2,491	Chaser Toursers	SWT10216ZZ	6	1st	86.0	1.5	3.25	BF	SR	Cr	Fe	13011-46030
					2nd	86.0	1.5	3.6	T1	CR	Fe	Fe	
					Oil	86.0	4.0	2.8	NIFF-S	SR	GN	GN	
1JZ-GTE	2,491		SWT10249ZZ	6	1st	86.0	1.2	3.1	BF	SR	GN	GN	13011-88410
					2nd	86.0	1.5	3.6	T1	CR	Fe	Fe	
					Oil	86.0	4.0	2.8	NIFF-S	SR	GN	GN	
3S-GTE 3S-GE	1,998	Celica 2000GT Caldina MR2 Camry Vista	SWT10141ZZ	4	1st	86.0	1.2	3.3	BF	SR	Cr	Fe	13011-88363 13011-88380
					2nd	86.0	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	86.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
3S-GTE	1,998	Caldina Turbo Celica Turbo MR2 Turbo	SWT10255ZZ	4	1st	86.0	1.2	3.3	BF-IB	SR	GN	GN	13011-88480
					2nd	86.0	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	86.0	4.0	2.8	NIFF-S	SR	GN	GN	
3S-FE	1,998	Camry Vista Corona Caldina Ipsum	SWT10162ZY	4	1st	86.0	1.2	2.9	BF	SR	Cr	Fe	13011-74340
					2nd	86.0	1.2	3.4	TUC	CR	Fe	Fe	
					Oil	86.0	3.0	2.85	NIFF-S	SR	Cr	Fe	
3S-FSE	1,998	Vista Nadia	TCC-Q-0744	4	1st	86.0	1.2	2.9	BF	SR	GN	GN	13011-74400
					2nd	86.0	1.2	3.4	T1	CR	Cr	Fe	
					Oil	86.0	2.0	2.75	E-BC16	SR	GN	GN	
2JZ-D4	2,997	Crown Mark II Chaser Cresta Lexus GS300	SDT10215ZZ	6	1st	86.0	1.2	2.7	BF	SR	GN	GN	13011-46060 13011-46061
					2nd	86.0	1.2	3.4	T1	CR	Cr	Fe	
					Oil	86.0	2.0	2.75	E-BC16	SR	GN	GN	
4U-GSE	1,998	86 FR-S(SCION) FT-86	SWT10261ZZ	4	1st	86.0	1.2	2.7	BF	SR	GN	GN	SU003-00145 12033-AC300
					2nd	86.0	1.0	2.7	TUC	SR	Fe	Fe	
					Oil	86.0	2.0	2.45	NIFF-H	SR	PC	W	
5S-FE 5S-FNE	2,163	Scepter Camry Harrier Mark II	SWT10133ZZ	4	1st	87.0	1.5	3.5	BF	SR	Cr	Fe	13011-74261
					2nd	87.0	1.5	3.6	T1	CR	Cr	Fe	13011-74290
					Oil	87.0	4.0	3.05	NIFF-S	SR	GN	GN	13011-74260 13011-74300
			SWT10149ZZ	4	1st	87.0	1.5	3.5	BF	SR	Cr	Fe	13011-74150
					2nd	87.0	1.5	3.6	T1	CR	Cr	Fe	
					Oil	87.0	3.0	2.85	NIFF-S	SR	Cr	Fe	
			SWT10166ZZ	4	1st	87.0	1.2	2.9	BF	SR	Cr	Fe	13011-74380
					2nd	87.0	1.2	3.4	TUC	CR	Fe	Fe	13011-74370
					Oil	87.0	3.0	2.75	NIFF-H	SR	GN	GN	13011-74410

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference					
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower						
3VZ-E 3VZ-FE	2,958	Camry Hi Lux Windom Cepter Lexus ES300	SWT10144ZZ	V6	1st	87.5	1.5	3.3	BF	SR	GN	GN	13011-62060					
					2nd	87.5	1.5	3.8	T1	CR	Fe	Fe	13011-65021					
					Oil	87.5	4.0	2.85	NIFF-S	SR	GN	GN						
			SWT10148ZZ	V6	1st	87.5	1.5	3.3	BF	SR	GN	GN	13011-62040					
					2nd	87.5	1.5	3.8	T1	CR	Fe	Fe						
					Oil	87.5	3.0	2.9	NIFF-S	SR	Cr	Fe						
1MZ-FE 2MZ-FE	2,995	Camry Lexus ES300 Windom Harrier Mark II	SWT10177ZZ	V6	1st	87.5	1.2	2.9	BF	SR	GN	GN	13011-20020					
	2,496				2nd	87.5	1.2	3.3	T1	CR	Fe	Fe	13011-20010					
					Oil	87.5	3.0	2.85	NIFF-H	SR	GN	GN	13011-20012					
													13011-20050					
1UZ-FE	3,969	Crown Celsior Majesta Soarer Lexus	SWT10147ZZ	V8	1st	87.5	1.5	3.1	BF	SR	GN	GN	13011-50040					
					2nd	87.5	1.5	3.7	TUC	CR	Fe	Fe						
					Oil	87.5	3.0	2.85	NIFF-H	SR	GN	GN						
3GR-D4 3GR-FE 3GR-FSE	2,994	Mark X Crown GS300	SDT10254ZZ	V6	1st	87.5	1.2	2.7	BF-IB	SR	GN	GN	13011-31170					
					2nd	87.5	1.2	2.7	TUC	SR	Fe	Fe	13011-31171					
					Oil	87.5	2.0	2.75	E-BC16	SR	GN	GN						
5R 5R-U	1,994	Crown RS50 RS50B Dyna RK171 RK171V-B RK176-H RK176V-HB Stout RK101 RK101-K Toyo Ace	SWT10069ZX	4	1st	88.0	2.0	3.3	BF	SR	GN	GN	13011-44010					
					2nd	88.0	2.5	4.2	T1	CR	Cr	Fe	13011-44011					
					Oil	88.0	4.0	3.3	NIFF-S	SR	Cr	Fe	13011-44030					
													13011-44031					
													13011-44032					
													13011-44040					
													13011-44041					
													13011-44042					
													13011-44043					
													13011-44060					
													13011-44061					
													13011-44062					
													13011-44063					
													13011-44073					
					16R 16R-B 16R-U	1,808	Corona Carina Corona Van Celica	SWT10043ZZ	4	1st	88.5	2.0	4.2	BF	CR	Cr	Fe	13011-34012
										2nd	88.5	2.5	4.2	T1	CR	Cr	Fe	13011-34013
Oil	88.5	4.0	3.85	NIFF-S						SR	Cr	Fe	13011-34020					
													13011-34021					
													13011-34022					
													13011-34023					
18R 18R-B 18R-U	1,968	Mark II Stout	SWT10043ZZ	4									13011-34030					
													13011-34050					
													13011-38010					
													13011-38020					
19R	1,968																	
20R 20R	2,189																	
	2,189	Coaster																

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
2AZ-FE 2AZ-FSE	2,362	Harrier Kluger Camry Ipsum Estima RAV 4	SDT10172ZZ	4	1st	88.5	1.2	2.7	BF	SR	Cr	Fe	13011-28100
					2nd	88.5	1.2	3.1	TUC	CR	Fe	Fe	13011-28141
					Oil	88.5	2.0	2.75	E-BC16	SR	GN	GN	13011-28180
			SWT10182ZZ	4	1st	88.5	1.2	2.7	BF	SR	Cr	Fe	13011-28101
					2nd	88.5	1.2	3.2	TUC	CR	Fe	Fe	13011-28102
					Oil	88.5	2.0	2.45	NIFF-H	SR	GN	GN	
2AZ-FE 2AZ-FSE	2,362	RAV4 Mark X Vellfire	SDT10200ZZ	4	1st	88.5	1.0	2.7	BF	SR	GN	GN	13011-28160
					2nd	88.5	1.0	2.7	TUC	SR	Fe	Fe	13011-28161
					Oil	88.5	2.0	2.75	E-BC16	SR	GN	GN	13011-28190
													13011-0H040
													13011-0H041
													13011-28240
1AR-FE	2,671	Lexus RX270	SDT10226ZZ	4	1st	90.0	1.0	2.9	BF-IB	SR	GN	GN	13011-36020
2AR-FE 2AR-FSE	2,493	Lexus ES Lexus IS Camry Crown Hybrid			2nd	90.0	1.0	2.7	TUC	SR	Fe	Fe	13011-36020-A
					Oil	90.0	2.0	2.75	E-BC16	SR	GN	GN	13011-36030
													13011-36050
													13011-36060
													13011-36070
F	3,878	Truck FA80 FA80D FA90 FA90D Land Cruiser FJ40 FJ43 FJ45V 2FQ10 Bus FB80 FB100	SWT10026ZZ	6	1st	90.0	3.0	3.7	T1	CR	Cr	Fe	13011-69021
					2nd	90.0	3.0	3.7	T1	CR	Fe	Fe	13011-60011
					Oil 1	90.0	4.0	3.9	NIFF-S	SR	Cr	Fe	
					Oil 2	90.0	4.0	3.7	C1	CR	Fe	Fe	
F(NEW)	3,878	Truck Bus Land Cruiser	SWT10044ZZ	6	1st	90.0	2.0	4.0	T1	CR	Cr	Fe	13011-60040
					2nd	90.0	2.5	4.0	T1	CR	Fe	Fe	
					Oil 1	90.0	4.0	3.9	NIFF-S	SR	Cr	Fe	
					Oil 2	90.0	4.0	4.0	BC3	CR	Fe	Fe	
4Y 4Y-E	2,237	Crown Hi Ace Fork Lift	SWT10111ZZ	4	1st	91.0	1.5	3.25	BF-IB	SR	Cr	Fe	13011-73020
					2nd	91.0	1.5	3.95	TUC	CR	Cr	Fe	13011-73030
					Oil	91.0	4.0	3.1	NIFF-S	SR	Cr	Fe	13011-73040
													13011-73042
3UZ-FE	4,292	Lexus LS Crown Majesta Soarer Celsior	SWT10272ZZ (TCC-R-0835)	V8	1st	91.0	1.2	2.9	BF	SR	GN	GN	13011-50170
					2nd	91.0	1.2	3.6	TUC	CR	Fe	Fe	
					Oil	91.0	3.0	2.55	NIFF-S	SR	GN	GN	
22R 22R-E 22R-EC	2,366	Coaster Celica Corona Hi Lux Hi Ace Land Cruiser	SWT10077ZX	4	1st	92.0	2.0	3.5	BF	SR	GN	GN	13011-35010
					2nd	92.0	2.5	4.2	T1	CR	Cr	Fe	13011-35020
					Oil	92.0	4.0	3.25	NIFF-S	SR	Cr	Fe	13011-35030
		SWT10103ZZ	4	1st	92.0	1.5	3.3	BF	SR	Cr	Fe	13011-35040	
				2nd	92.0	1.5	4.0	T1	CR	Cr	Fe	13011-35050	
				Oil	92.0	4.0	3.25	NIFF-S	SR	GN	GN	13011-35060	
												13011-35061	
												13011-35070	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
3MZ-FE	3,310	Harrier Hybrid Kluger Hybrid Lexus ES330,RX330	SWT10228ZZ	V6	1st	92.0	1.2	2.85	BF	SR	Cr	Fe	13011-0A030
					2nd	92.0	1.2	3.8	TUC	CR	Fe	Fe	
					Oil	92.0	3.0	2.55	NIFF-S	SR	GN	GN	
			SDT10247ZZ	V6	1st	92.0	1.2	3.1	BF-IB	SR	GN	GN	13011-20061
					2nd	92.0	1.2	3.8	TUC	CR	Fe	Fe	
					Oil	92.0	3.0	2.9	E-BC16	SR	GN	GN	
5P	2,771	Fork Lift	SWT10048ZZ	4	1st	93.0	2.5	3.8	BF	CR	Cr	Fe	13011-96102
					2nd	93.0	2.5	3.8	T1	CR	Fe	Fe	
					Oil	93.0	4.0	3.9	NIFF-S	SR	Cr	Fe	
5VZ-FE	3,378	Land Cruiser Hi Lux Surf Hi Ace Granvia	SWT10178ZZ	V6	1st	93.5	1.5	3.3	BF	SR	GN	GN	13011-62100
					2nd	93.5	1.5	4.0	T1	CR	Fe	Fe	13011-62110
					Oil	93.5	4.0	2.85	NIFF-S	SR	GN	GN	13011-62020
2F	4,230	Truck FJ55 FJ101 FC22D Land Cruiser	SWT10049ZX	6	1st	94.0	2.0	3.5	BF	SR	GN	GN	13011-61010
					2nd	94.0	2.5	4.2	T1	CR	Cr	Fe	
					Oil	94.0	4.0	3.85	NIFF-S	SR	Cr	Fe	
3F 3F-E	3,955	Land Cruiser	SWT10106ZY	6	1st	94.0	1.5	3.5	BF	SR	GN	GN	13011-61060
					2nd	94.0	1.5	4.0	T1	CR	Fe	Fe	
					Oil	94.0	4.0	3.3	NIFF-S	SR	Cr	Fe	
3F(NEW)	3,955	Land Cruiser	SWT10151ZZ	6	1st	94.0	2.0	3.3	BF	SR	GN	GN	13011-61062
					2nd	94.0	2.0	4.0	T1	CR	Cr	Fe	
					Oil	94.0	4.0	3.25	NIFF-S	SR	GN	GN	
1GR-FE	3,955	Hi Lux Surf 4 Runner Prado	SWT10195ZZ	V6	1st	94.0	1.2	3.25	BF	SR	Cr	Fe	13011-31100
					2nd	94.0	1.2	3.4	TUC	CR	Fe	Fe	13011-31210
					Oil	94.0	2.0	2.8	NIFF-H	SR	GN	GN	13011-0P020
2GR-FE 2GR-FSE	3,459	Harrier Camry Avalon Lexus Estima RAV 4	SDT10194ZY	V6	1st	94.0	1.2	2.9	BF-IB	SR	GN	GN	13011-31140
					2nd	94.0	1.2	2.9	TUC	SR	Fe	Fe	13011-31141
					Oil	94.0	2.0	2.75	E-BC16	SR	GN	GN	13011-0P040
													13011-31130 13011-31160
2UZ-FE	4,663	Land Cruiser Lexus LX470 Lexus GX470 Hi Lux Surf 4 Runner Sequoia Tundra	SWT10203ZZ	V8	1st	94.0	1.5	3.3	BF	SR	GN	GN	13011-50140
					2nd	94.0	1.5	4.0	T1	CR	Fe	Fe	13011-50141
					Oil	94.0	4.0	2.55	NIFF-S	SR	GN	GN	
			SWT10240ZZ	V8	1st	94.0	1.2	2.9	BF-IB	SR	GN	GN	13011-50162
					2nd	94.0	1.2	3.9	TUC-RB	CR	Fe	Fe	13011-0F022
					Oil	94.0	3.0	2.55	NIFF-S	SR	GN	GN	13011-0F010

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
1UR-FSE 1UR-FFV	4,608	Land Cruiser	SDT10204ZZ	V8	1st	94.0	1.2	2.9	BF-IB	SR	GN	GN	13011-38080
		Lexus GS460			2nd	94.0	1.2	2.9	TUC	SR	Fe	Fe	13011-38081
		Crown Majesta			Oil	94.0	2.0	2.75	E-BC16	SR	GN	GN	13011-38090
2UR-FSE	4,968												13011-38110
1UR-FE	4,608	Lexus LS460	SWT10236ZZ	V8	1st	94.0	1.2	2.9	BF-IB	SR	GN	GN	13011-0S011
		Land Cruiser			2nd	94.0	1.2	3.4	TUC	CR	Fe	Fe	
					Oil	94.0	2.0	2.8	NIFF-H	SR	GN	GN	
3UR-FE	5,663	Lexus IS-F Lexus RCF											
2GR-FKS	3,456	Lexus GS350	SWT10233ZZ	V6	1st	94.0	1.2	2.9	BF-IB	SR	GN	GN	13011-0P051
		Hi Ace			2nd	94.0	1.2	2.9	TUC	SR	Cr	Fe	
		Granvia			Oil	94.0	2.0	2.7	NIFF-H	SR	GN	GN	
		Land Cruiser Avalon Camry Highlander Sienna Tacoma											
2TZ-FE 2TZ-FZE	2,438	Estima	SWT10127ZZ	4	1st	95.0	1.75	3.65	BF	SR	Cr	Fe	13011-76010
					2nd	95.0	1.5	3.8	T1	CR	Fe	Fe	13011-76050
					Oil	95.0	4.0	3.25	NIFF-S	SR	GN	GN	
3RZ-FE	2,693	Hi Lux Surf	SWT10139ZZ	4	1st	95.0	1.5	3.5	BF	SR	GN	GN	13011-75040-A
		Land Cruiser Prado			2nd	95.0	1.5	3.45	TUC	SR	Cr	Fe	
		Toyo Ace			Oil	95.0	4.0	3.05	NIFF-S	SR	GN	GN	
2RZ	2,438	Granvia	SWT10245ZZ	4	1st	95.0	1.75	3.3	BF	SR	GN	GN	13011-75060
3RZ-FE	2,693	Hi Ace wagon			2nd	95.0	1.5	3.45	TUC	SR	Cr	Fe	13011-75030
					Oil	95.0	4.0	3.05	NIFF-S	SR	GN	GN	
2TR-FE	2,693	Hi Lux Surf	SDT10193ZY	4	1st	95.0	1.2	2.9	BF	SR	GN	GN	13011-0C030
		Land Cruiser			2nd	95.0	1.2	3.4	TUC	CR	Fe	Fe	13011-75130
		Hi Ace Prado			Oil	95.0	2.0	2.75	E-BC16	SR	GN	GN	13011-75110
2TR-FFV	2,693	Hi Ace Wagon	SDT10213ZZ	4	1st	95.0	1.2	2.9	BF	SR	GN	GN	13011-75150
		Land Cruiser			2nd	95.0	1.2	2.9	TUC	SR	Cr	Fe	
		Prado			Oil	95.0	2.0	2.75	E-BC16	SR	GN	GN	
1FZ-FE	4,477	Land Cruiser 70 80	SWT10168ZZ	6	1st	100.0	2.0	3.5	BF	SR	GN	GN	13011-66020
					2nd	100.0	2.0	3.8	TUC	CR	Cr	Fe	
					Oil	100.0	4.0	3.3	NIFF-S	SR	GN	GN	
		Land Cruiser FZJ80G	SWT10184ZZ	6	1st	100.0	1.75	3.7	BF-IB	SR	GN	GN	13011-66021
					2nd	100.0	2.0	3.8	TUC	CR	Cr	Fe	
					Oil	100.0	4.0	3.3	NIFF-S	SR	GN	GN	

● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
1ND-TV	1,362	Corolla iQ Probox Yaris	SDT10202ZZ	4	1st	73.0	1.5	2.5	BF	SR	GN	GN	13011-33041
					2nd	73.0	1.5	2.45	T1	SR	Cr	Fe	
					Oil	73.0	3.0	3.25	E-BC16	SR	GN	GN	
1ND-TV 2WZ-TV			SDT10262ZZ	4	1st	73.0	1.5	2.5	BF	SR	GN	GN	13011-33052
					2nd	73.0	1.2	2.8	T1	CR	Fe	Fe	
					Oil	73.0	2.0	2.75	E-BC16	SR	GN	GN	
1N-T	1,453	Corolla II Tercel Corsa	SWT10117ZZ	4	1st	74.0	1.5	2.7	BF-K2	SR	GN	GN	13011-55010 13011-55011
					2nd	74.0	1.5	3.2	T1	CR	Cr	Fe	
					Oil	74.0	3.0	2.8	NIFF-S	SR	GN	GN	
1CD-FTV	1,995	Corolla Avencis	SDT10206ZZ	4	1st	82.2	2.0	3.05	BF	SR	Cr	Fe	13011-27030
					2nd	82.2	1.5	2.9	T1	HB	Cr	Fe	
					Oil	82.2	3.0	3.75	E-BC16	CR	Cr	Fe	
1CDA	1,995	Corolla Avencis	SDT10214ZZ	4	1st	82.2	2.0	2.85	BF	SR	Cr	Fe	13011-27040
					2nd	82.2	1.5	2.7	T1	HB	Fe	Fe	
					Oil	82.2	3.0	3.1	E-BC16	SR	GN	GN	
1C 1C-L	1,839	Corona Carina Corolla Sprinter	SDT10081ZX	4	1st	83.0	2.0	3.05	BF-K2	SR	Cr	Fe	13011-64010
					2nd	83.0	2.0	3.8	T1	CR	Cr	Fe	13011-64020
					Oil	83.0	4.0	4.35	E-BC16	SR	GN	GN	13011-64040 13011-64070 13011-64080
1C(NEW)	1,839	Corolla	SDT10110ZZ	4	1st	83.0	2.0	3.1	BF-K2	SR	GN	GN	13011-64220
					2nd	83.0	2.0	3.5	T1	CR	Cr	Fe	13011-64130
					Oil	83.0	3.0	3.15	E-BC16	SR	GN	GN	
1DZ	2,486	Estima Town Ace Camry	SDT10159ZZ	4	1st	86.0	2.0	3.1	BF-K2	SR	GN	GN	13011-78201-71
					2nd	86.0	2.0	3.6	T1	CR	Cr	Fe	
					Oil	86.0	4.0	4.35	E-BC16	SR	GN	GN	
3C-T	2,184	Vista Fork Lift											
1DZ	2,486	Fork Lift	SDT10191ZZ	4	1st	86.0	2.0	3.05	BF-K2	SR	Cr	Fe	13011-78200-71
					2nd	86.0	2.0	3.6	T1-K3	CR	Cr	Fe	
					Oil	86.0	4.0	4.15	E-BC16	SR	GN	GN	
1DZ-II	2,486	Fork Lift	SDT10244ZZ	4	1st	86.0	2.0	3.1	BF-K2	SR	GN	GN	13011-UC010
					2nd	86.0	2.0	3.1	T1	SR	GN	GN	
					Oil	86.0	3.0	3.25	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
2C 2C-L	1,974	Town Ace Corona Corolla Carina Caldina Master Ace Daihatsu Delta	SDT10096ZX	4	1st	86.0	2.0	3.05	BF-K2	SR	Cr	Fe	13011-64060
					2nd	86.0	2.0	3.6	T1	CR	Cr	Fe	13011-64110
					Oil	86.0	4.0	4.35	E-BC16	SR	GN	GN	13011-64150
			SDT10152ZZ	4	1st	86.0	1.75	2.9	BF-K2	SR	GN	GN	13011-64170
					2nd	86.0	2.0	3.6	T1	CR	Cr	Fe	
					Oil	86.0	3.0	3.05	E-BC16	SR	GN	GN	
			SDT10155ZZ	4	1st	86.0	2.0	3.1	BF-K2	SR	GN	GN	13011-64190
					2nd	86.0	2.0	3.6	T1	CR	Cr	Fe	13011-64202
					Oil	86.0	3.0	3.05	E-BC16	SR	GN	GN	13011-64210
													13011-64212
													13011-64213
													13011-64230
1VD-FTV	4,461	Land Cruiser	SDT10239ZZ	V8	1st	86.0	2.0	2.85	BF	SR	Cr	Fe	13011-51031
					2nd	86.0	1.5	2.9	T1	SR	GN	GN	
					Oil	86.0	2.0	2.75	E-BC16	SR	GN	GN	
2AD-FHV 2AD-FTV	2,231	Avensis Lexus IS 200d RAV 4	SDT10258ZZ	4	1st	86.0	2.0	2.7	BF-IB	SR	GN	GN	13011-26090
					2nd	86.0	1.5	3.0	T1	HB	Fe	Fe	13011-26100
					Oil	86.0	2.0	2.75	E-BC16	SR	GN	GN	13011-26110
2J	2,481	Dyna JK170DH JK175 JK171DH JK176 JK170B JK171B	SCT10024ZZ	4	1st	88.0	2.5	3.8	BF-K3	HB	Cr	Fe	13011-46021
					2nd	88.0	2.5	3.8	T1	CR	Cr	Fe	
					3rd	88.0	2.5	3.8	TUC	CR	Fe	Fe	
					Oil 1	88.0	4.0	3.8	BC1	CR	Cr	Fe	
					Oil 2	88.0	4.0	3.8	BC1	CR	Fe	Fe	
		Dyna Coaster Fork Lift	SDT10045ZX	4	1st	88.0	2.54	3.8	BF-K3	HB	Cr	Fe	13011-48013
					2nd	88.0	2.5	3.8	T1	CR	Cr	Fe	13011-48021
					3rd	88.0	2.5	3.8	TUC	CR	Fe	Fe	
					Oil	88.0	4.0	4.35	E-BC16	SR	GN	GN	
H	3,567	Dyna HV15	SCT10025ZZ	6	1st	88.0	2.5	3.8	BF-K3	HB	Cr	Fe	13011-47020
					2nd	88.0	2.5	3.8	T1	CR	Cr	Fe	
					3rd	88.0	2.5	3.8	TUC	CR	Fe	Fe	
					Oil 1	88.0	4.0	3.8	BC1	CR	Cr	Fe	
					Oil 2	88.0	4.0	3.8	BC1	CR	Fe	Fe	
		Dyna HU15	SDT10047ZZ	6	1st	88.0	2.54	3.8	BF-K3	HB	Cr	Fe	13011-47021
					2nd	88.0	2.5	3.8	T1	CR	Cr	Fe	
					3rd	88.0	2.5	3.8	TUC	CR	Fe	Fe	
					Oil	88.0	4.0	4.2	E-BC3	CR	Cr	Fe	
		Land Cruiser Dyna HU30 HU45	SDT10051ZZ	6	1st	88.0	2.54	3.8	BF-K3	HB	Cr	Fe	13011-47022
					2nd	88.0	2.5	3.8	T1	CR	Fe	Fe	13011-47023
					Oil	88.0	4.0	4.2	E-BC3	CR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
L	2,188	Crown	SDT10066ZZ	4	1st	90.0	2.5	3.8	BF	HB	Cr	Fe	13011-54010
		Chaser			2nd	90.0	2.0	4.0	T1	CR	Cr	Fe	13011-54020
		Hi Lux (Truck)			Oil	90.0	4.0	4.2	E-BC3	CR	Cr	Fe	13011-54021
		Hi Ace											
L(NEW)	2,188	Blizzard (Jeep)	SDT10082ZX	4	1st	90.0	2.0	3.5	BF-K2	SR	GN	GN	13011-54030
		Crown			2nd	90.0	2.0	4.0	T1	CR	Cr	Fe	13011-54031
		Corona Mark II			Oil	90.0	4.0	4.35	E-BC16	SR	GN	GN	13011-54040
		Toyo Ace											13011-54041
2H	3,980	Hi Ace (Expo)	SDT10075ZX	6	1st	91.0	2.54	4.0	BF-K3	HB	Cr	Fe	13011-68010
		Blizzard (Jeep)			2nd	91.0	2.5	4.0	T1	CR	Cr	Fe	13011-68020
		Hi Lux (Expo)			Oil	91.0	4.0	4.35	E-BC16	SR	GN	GN	13011-96601
		Land Cruiser 3FD3・35・40											
		FDG	SDT10107ZZ	6	1st	91.0	2.54	4.0	BF-K3	HB	Cr	Fe	13011-31960-71
		Bus			2nd	91.0	2.5	4.0	T1	CR	Cr	Fe	
		Coaster			3rd	91.0	2.0	4.0	TUC	CR	Cr	Fe	
					Oil	91.0	4.0	4.2	E-BC3	CR	Cr	Fe	
12H-T	3,980	Land Cruiser	SDT10112ZZ	6	1st	91.0	2.5	3.5	BF-K3	SR	GN	GN	13011-68030
		Coaster (Export)			2nd	91.0	2.5	4.0	T1	CR	Cr	Fe	
					Oil	91.0	4.0	4.2	E-BC3	CR	Cr	Fe	
2L-T 2L-TE	2,446	Bus	SDT10089ZZ	4	1st	92.0	2.0	3.35	BF-K2	SR	GN	GN	13011-54050
		Coaster (Export)			2nd	92.0	2.0	3.3	T1	SR	GN	GN	13011-54060
		Land Cruiser			Oil	92.0	4.0	4.35	E-BC16	SR	GN	GN	13011-54061
													13011-54100
2KD	2,494	Crown	SDT10180ZZ	4	1st	92.0	2.0	2.9	BF	SR	GN	GN	13011-30030
		Chaser			2nd	92.0	1.5	2.9	T1	SR	GN	GN	13011-30031
		Corona Mark II			Oil	92.0	3.0	3.0	E-BC16	SR	GN	GN	13011-30060
2KD-VNT 2KD-FTV	2,494	Hi Ace	SDT10207ZZ	4	1st	92.0	2.0	2.9	BF-K2	SR	GN	GN	13011-30120
		Fortuner			2nd	92.0	1.5	2.9	T1	SR	GN	GN	13011-0L070
					Oil	92.0	3.0	3.0	E-BC16	SR	GN	GN	
1GD 2GD	2,754 2,393		SDT10234ZZ	4	1st	92.0	2.0	2.9	BF-K2	SR	GN	GN	13011-11200
					2nd	92.0	1.5	2.9	T1	SR	GN	GN	13011-11201
					Oil	92.0	3.0	3.0	E-BC16	SR	GN	GN	13011-11210
													13011-11220
1HZ	4,163		SDT10163ZZ	6	1st	94.0	2.0	3.5	BF-K2	SR	GN	GN	13011-17010
		Land Cruiser			2nd	94.0	2.0	4.0	T1	CR	Cr	Fe	13011-17011
		Coaster			Oil	94.0	4.0	4.25	E-BC16	SR	GN	GN	13011-17020
													13011-17030

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
1HD-FTE	4,163	Land Cruiser Coaster	SDT10210ZZ	6	1st	94.0	2.0	3.3	BF	SR	GN	GN	13011-17040
					2nd	94.0	1.5	3.1	TUC	SR	GN	GN	
					Oil	94.0	4.0	4.35	E-BC16	SR	GN	GN	
1PZ	3,469	Land Cruiser	SDT10190ZZ	5	1st	94.0	2.0	3.5	BF-K2	SR	GN	GN	13011-18030
					2nd	94.0	2.0	4.0	T1	CR	Cr	Fe	
					Oil	94.0	4.0	4.35	E-BC16	SR	GN	GN	
B	2,977	Toyo Ace Dyna Coaster Land Cruiser Hino Ranger	SDT10058ZZ	4	1st	95.0	2.5	4.1	BF-K3	HB	Cr	Fe	13011-56011
					2nd	95.0	2.5	4.3	T1	CR	Cr	Fe	
					3rd	95.0	2.5	4.3	TUC	CR	Fe	Fe	
					Oil	95.0	4.5	4.3	E-BC3	CR	Cr	Fe	
11B B(NEW)	2,977	Dyna Toyo Ace	SDT10154ZZ	4	1st	95.0	2.5	3.5	BF-K2	SR	GN	GN	13011-56040
					2nd	95.0	2.0	4.3	T1	CR	Cr	Fe	
					Oil	95.0	4.0	4.35	E-BC16	SR	GN	GN	
		Dyna Toyo Ace	SDT10157ZZ	4	1st	95.0	2.5	3.7	BF	SR	Cr	Fe	13011-56030
					2nd	95.0	2.5	4.3	T1	CR	Cr	Fe	
					Oil	95.0	4.5	4.3	E-BC3	CR	Cr	Fe	
3L	2,779	Toyo Ace Hi Lux Hi Ace Van Wagon	SDT10124ZY	4	1st	96.0	2.0	3.35	BF-K2	SR	GN	GN	13011-54120
					2nd	96.0	2.0	4.2	T1	CR	Cr	Fe	
					Oil	96.0	4.0	4.35	E-BC16	SR	GN	GN	
1KZ-TE	2,982	Land Cruiser Hi Lux Surf Hi Ace Wagon Land Cruiser	SDT10137ZY	4	1st	96.0	2.0	3.35	BF-K2	SR	GN	GN	13011-67030
					2nd	96.0	2.0	3.65	TUC	SR	Cr	Fe	
					Oil	96.0	3.0	3.25	E-BC16	SR	GN	GN	
1Z 12Z	2,953	Dyna	SDT10158ZZ	4	1st	96.0	2.0	3.5	BF	SR	GN	GN	13011-78300-71
					2nd	96.0	2.0	4.4	T1	CR	Cr	Fe	
					Oil	96.0	4.0	3.95	E-BC3	CR	Cr	Fe	
1KD-FTV	2,982	Land Cruiser Hi Lux Surf Hi Ace	SDT10175ZY	4	1st	96.0	2.0	3.35	BF-K2	SR	GN	GN	13011-30020
					2nd	96.0	1.5	3.3	T1	SR	GN	GN	13011-30021
					Oil	96.0	3.0	3.0	E-BC16	SR	GN	GN	13011-30022
													13011-30040
													13011-30050 13011-30051
2Z	3,469	Fork Lift	SDT10179ZZ	4	1st	98.0	2.0	3.5	BF	SR	GN	GN	13011-78700-71
					2nd	98.0	2.0	4.3	T1	CR	Cr	Fe	
					Oil	98.0	4.0	4.35	E-BC16	SR	GN	GN	
2Z 2Z-B		Fork Lift	SDT10259ZZ	4	1st	98.0	2.0	3.5	BF	SR	GN	GN	13011-78701-71 13011-78702-71 13011-UD010
					2nd	98.0	2.0	3.5	T1	SR	GN	GN	
					Oil	98.0	4.0	4.35	E-BC16	SR	GN	GN	

DAIHATSU
SUBARU
HINO
HONDA
ISUZU
KOMATSU
MAZDA
MITSUBISHI
NISSAN
UD TRUCKS
SUZUKI
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DAEWOO
HYUNDAI
KIA
CHINA
ASIA
CHRYSLER
FORD
G M
EUROPE

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
13Z	5,244	Forklift 7FDAU40	SDT10264ZZ	6	1st	98.0	2.0	3.5	BF	SR	GN	GN	13011-78760-71
		Forklift 7FDK40			2nd	98.0	2.0	3.5	T1	SR	GN	GN	
		Forklift 7FDKU40			Oil	98.0	4.0	4.35	E-BC16	SR	GN	GN	
15Z	5,204	Fork Lift	SDT10260ZZ	6	1st	98.0	2.0	3.5	BF-K2	SR	GN	GN	13011-UE020
		For Industrial Machine			2nd	98.0	2.0	3.5	T1	SR	GN	GN	
		Light Truck			Oil	98.0	4.0	4.35	E-BC16	SR	GN	GN	
5L 5L-E	2,985	Hi Ace Van	SDT10167ZZ	4	1st	99.5	2.0	3.6	BF-K2	SR	GN	GN	13011-54130
		Hi Lux			2nd	99.5	1.5	3.7	TUC	SR	GN	GN	
		Hi Ace Land Cruiser			Oil	99.5	4.0	4.35	E-BC16	SR	GN	GN	
13B	3,431	Dyna	SDT10136ZX	4	1st	102.0	2.5	4.1	BF	SR	Cr	Fe	13011-58030
		Toyo Ace			2nd	102.0	2.5	4.3	T1	CR	Cr	Fe	
					Oil	102.0	4.5	4.6	E-BC16	SR	GN	GN	
13B-T	3,431	Land Cruiser 70	SDT10217ZZ	4	1st	102.0	2.5	4.1	BF-K2	HB	Cr	Fe	13011-58040
					2nd	102.0	2.5	4.3	T1	CR	Cr	Fe	
					Oil	102.0	4.5	4.6	E-BC16	CR	Cr	Fe	
14B	3,660	Dyna	SDT10135ZZ	4	1st	102.0	2.5	3.7	BF-K2	SR	GN	GN	13011-58050
		Toyo Ace			2nd	102.0	2.0	4.3	T1	CR	Cr	Fe	13011-58070
		Coaster			Oil	102.0	4.0	4.35	E-BC16	SR	GN	GN	13011-58072
14B-T	3,660	Dyna	SDT10248ZZ	4	1st	102.0	3.0	3.7	BF-K2	SR	GN	GN	13011-58060
		Toyo Ace			2nd	102.0	2.0	4.3	T1	CR	Cr	Fe	
					Oil	102.0	4.0	4.35	E-BC16	SR	GN	GN	
N04C-A	4,009	Dyna	SDT10198ZZ	4	1st	104.0	2.5	3.7	BF	SR	GN	GN	13011-78060
		Toyo Ace			2nd	104.0	2.0	4.3	T1	CR	Fe	Fe	13011-58072
					Oil	104.0	4.0	4.35	E-BC16	SR	GN	GN	
N04C W04DT	4,009	Dyna	SDT10221ZZ	4	1st	104.0	2.806	3.7	BF-K1	SR	GN	GN	13011-78220
		Toyo Ace			2nd	104.0	2.0	4.3	T1	CR	Fe	Fe	S1304-E0281
					Oil	104.0	4.0	4.4	E-BC16	SR	GN	GN	
2D	6,494	Truck	SDT10028ZX	6	1st	105.0	3.0	3.9	BF	SR	GN	GN	13011-77010
		DA90 DA90D			2nd	105.0	3.0	4.2	T1	CR	Cr	Fe	13011-77020
		DA95 DA110			3rd	105.0	3.0	4.2	BI-TUC	CR	Fe	Fe	13011-77021
		DA110D DA115			Oil 1	105.0	5.0	4.6	E-BC3	CR	Cr	Fe	13011-77022
		DA115C DA116			Oil 2	105.0	5.0	4.2	BC1	CR	Fe	Fe	13011-77023
		Bus	SDT10065ZX	6	1st	105.0	3.0	3.9	BF	SR	GN	GN	13011-77024
		DB90 DB92			2nd	105.0	3.0	4.2	T1	CR	Cr	Fe	
		DB95 DB100			3rd	105.0	3.0	4.2	BI-TUC	CR	Fe	Fe	
		DB100C DB102			Oil	105.0	5.0	4.6	E-BC3	CR	Cr	Fe	
		DB102C DB105											
		DB105C DR10											
		DR11 DR15											

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
15B-F	4,104	Dyna Toyo Ace	SDT10188ZZ	4	1st	108.0	3.0	3.7	BF-K2	SR	GN	GN	13011-58090
					2nd	108.0	2.0	4.3	BI-TUC	CR	Cr	Fe	
					Oil	108.0	4.0	4.4	E-BC16	SR	GN	GN	
15B-FTE	4,104	Mega Cruiser Toyo Ace Dyna	SDT10189ZZ	4	1st	108.0	3.0	3.7	BF	SR	GN	GN	13011-58110
					2nd	108.0	2.0	3.8	BI-TUC	CR	Fe	Fe	
					Oil	108.0	4.0	4.4	E-BC16	SR	GN	GN	
S05C	4,899	Toyo Ace Dyna	SDT10199ZZ	4	1st	114.0	2.5	4.3	BF	SR	GN	GN	13011-78031 13011-3731A
					2nd	114.0	2.0	4.3	T1	SR	GN	GN	
					Oil	114.0	4.0	4.35	E-BC16	SR	GN	GN	

● Gasoline-engine Automobiles ●ガソリン車●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
3EA F6B S-TEC I 0.8L YSE	796	Fino Matiz Tico	SWD20002ZY	3	1st	68.5	1.2	2.5	BF	SR	GN	GN	12140-78B00 94581409
					2nd	68.5	1.5	2.8	T1	CR	Fe	Fe	
					Oil	68.5	2.8	2.88	NIFF-H	SR	GN	GN	
3EA	796	Matiz	SWD20011ZZ	3	1st	68.5	1.2	2.65	BF-IB	SR	Cr	Fe	96325192 (cyl)
					2nd	68.5	1.2	2.8	T1	CR	Fe	Fe	
					Oil	68.5	2.5	2.75	NIFF-H	SR	GN	GN	
4EA	995	Matiz (GM)	SWD20005ZZ	4	1st	68.5	1.2	2.65	BF-IB	SR	Cr	Fe	96325192 (cyl)
					2nd	68.5	1.2	2.8	T1	CR	Fe	Fe	
					Oil	68.5	2.5	2.75	NIFF-H	SR	GN	GN	
NP960	1,498	Leman 1.5L Lanos Espero Cielo Nubica Lacetti	SWD20003ZX	4	1st	76.5	1.5	2.65	BF	SR	Cr	Fe	
					2nd	76.5	1.5	3.2	TUC	CR	Fe	Fe	
					Oil	76.5	3.0	2.85	NIFF-H	SR	GN	GN	
D-TEC 1.6	1,598	Lanos Nubira Espero Aveo 1.6	SWD20004ZZ	4	1st	79.0	1.2	3.05	BF	SR	Cr	Fe	S1220014 93740225(GM)
					2nd	79.0	1.5	3.3	TUC	CR	Fe	Fe	
					Oil	79.0	3.0	3.0	NIFF-S	SR	Cr	Fe	
T18SED	1,796	Excelle 1.8 3BOX RV	SWD20012ZZ	4	1st	80.5	1.2	2.9	BF-IB	SR	GN	GN	93742700
					2nd	80.5	1.2	3.2	TUC	CR	Fe	Fe	
					Oil	80.5	2.0	3.0	NIFF-H	SR	Cr	Fe	
X18XEV	1,796	Optra 1.8	SWD20009ZZ	4	1st	81.6	1.2	3.1	BF-IB	SR	GN	GN	92067238
					2nd	81.6	1.5	3.3	TUC	CR	Fe	Fe	
					Oil	81.6	3.0	2.9	NIFF-S	SR	Cr	Fe	
D-TEC 2.2	2,198	Prince	SWD20006ZZ	4	1st	86.0	1.5	3.45	BF	SR	Cr	Fe	92062027
					2nd	86.0	1.5	3.5	TUC	CR	Fe	Fe	
					Oil	86.0	3.0	3.0	NIFF-S	SR	Cr	Fe	

● Diesel-engine Automobiles ●ディーゼル車●

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● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
G4HA EPSILON 0.8	798	Atos	SWG30020ZZ	4	1st	63.0	1.2	2.25	BF	SR	Cr	Fe	23040-02511
					2nd	63.0	1.5	2.8	T1-IB	CR	Fe	Fe	23040-02510
					Oil	63.0	2.8	2.75	NIFF-S	SR	Cr	Fe	
G4HC EPSILON 1.0	999	Atos	SWG30018ZZ	4	1st	66.0	1.2	2.25	BF	SR	Cr	Fe	23040-02700
					2nd	66.0	1.2	2.9	T1	CR	Fe	Fe	
					Oil	66.0	2.5	2.75	NIFF-H	SR	GN	GN	
G4HG EPSILON 1.1	1,086	Santro i 10	SWG30031ZZ	4	1st	67.0	1.2	2.3	BF	SR	GN	GN	23040-02820
					2nd	67.0	1.2	2.7	T1	CR	Fe	Fe	
					Oil	67.0	2.5	2.5	NIFF-S	SR	GN	GN	
			SWG30038ZZ	4	1st	67.0	1.2	2.3	BF	SR	GN	GN	23040-02950
					2nd	67.0	1.2	2.8	TUC	CR	Fe	Fe	23040-02955
					Oil	67.0	2.0	2.65	NIFF-H	SR	GN	GN	23040-02970 23040-02AAA0
			SWG30051ZZ	4	1st	67.0	1.2	2.3	BF	SR	GN	GN	23040-02980
					2nd	67.0	1.2	2.8	TUC	CR	Fe	Fe	
					Oil	67.0	2.0	2.45	NIFF-H	SR	GN	GN	
G3HA G3HG	814	Atos Eon	SWG30071ZZ	3	1st	67.0	1.2	2.3	BF	SR	GN	GN	23040-05000
					2nd	67.0	1.2	2.8	TUC	CR	Fe	Fe	
					Oil	67.0	2.0	2.65	NIFF-H	SR	GN	GN	
X11 G4DG	1,298	Excel 94	SWG30022ZZ	4	1st	71.0	1.5	2.65	BF	SR	Cr	Fe	23040-24010
					2nd	71.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	71.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
Kappa 1.2	1,197	Atos	SWG30058ZZ	4	1st	71.0	1.0	2.25	BF	SR	Cr	Fe	23040-03000
					2nd	71.0	1.2	2.5	TUC	CR	Fe	Fe	
					Oil	71.0	2.0	1.95	NIFF-H	SR	GN	GN	
		i10 i20 KIA : Picanto KIA : Rio	SWG30058ZY	4	1st	71.0	1.0	2.5	BF	SR	GN	GN	23040-03220
					2nd	71.0	1.2	2.5	TUC	CR	Fe	Fe	
					Oil	71.0	2.0	2.2	NIFF-H	SR	GN	GN	
G4EA ALPHA 1.3 ALPHA 1.3s	1,341	Accent	SWG30016ZZ	4	1st	71.5	1.5	2.65	BF	SR	Cr	Fe	23040-22300
					2nd	71.5	1.5	3.1	T1	CR	Fe	Fe	23040-22351
					Oil	71.5	3.0	2.85	NIFF-H	SR	GN	GN	
		Click	SWG30036ZZ	4	1st	71.5	1.2	2.65	BF-IB	SR	Cr	Fe	23040-22301
					2nd	71.5	1.2	3.0	TUC	CR	Fe	Fe	
					Oil	71.5	2.0	2.5	NIFF-H	SR	GN	GN	
G4LC Kappa 1.4	1,359	Accent	SWG30069ZZ	4	1st	72.0	1.0	2.25	BF-IB	SR	Cr	Fe	23040-03AA0
					2nd	72.0	1.2	2.6	TUC	CR	Fe	Fe	
					Oil	72.0	2.0	1.95	NIFF-H	SR	GN	GN	
G4AE ALPHA 1.5	1,468	Accent Scoupe	SWG30017ZX	4	1st	75.5	1.5	2.85	BF	SR	Cr	Fe	23040-22010
					2nd	75.5	1.5	3.1	T1	CR	Fe	Fe	23040-22601
					Oil	75.5	3.0	2.75	NIFF-S	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
G4EK ALPHA 1.5	1,468	Accent Avante	SWG30019ZZ	4	1st	75.5	1.2	2.85	BF	SR	Cr	Fe	23010-26001
					2nd	75.5	1.5	3.1	T1	CR	Fe	Fe	
					Oil	75.5	3.0	2.75	NIFF-S	SR	Cr	Fe	
		Excel 1.5	SWG30023ZZ	4	1st	75.5	1.5	2.85	BF	SR	Cr	Fe	23040-21110
					2nd	75.5	1.5	3.3	T1	CR	Fe	Fe	23040-21210
					Oil	75.5	4.0	3.25	NIFF-S	SR	Cr	Fe	23040-24200 23040-21100
G4AJ	1,468	Click	SWG30035ZZ	4	1st	75.5	1.2	2.85	BF-IB	SR	Cr	Fe	23040-26002
					2nd	75.5	1.2	3.3	TUC	CR	Fe	Fe	
					Oil	75.5	2.0	2.8	NIFF-H	SR	GN	GN	
G4ED ALPHA 1.6	1,599	Elantra Santa Fe	SWG30030ZZ	4	1st	76.5	1.2	2.85	BF-IB	SR	Cr	Fe	23040-26101
					2nd	76.5	1.2	3.2	TUC	CR	Fe	Fe	
					Oil	76.5	2.5	2.8	NIFF-H	SR	GN	GN	
G4ED ALPHA II 1.6		Click	SWG30034ZZ	4	1st	76.5	1.2	2.85	BF-IB	SR	Cr	Fe	23040-26160
					2nd	76.5	1.2	3.2	TUC	CR	Fe	Fe	23040-26120
					Oil	76.5	2.0	2.5	NIFF-H	SR	GN	GN	
GAMMA 1.4	1,396	Avante HD	SWG30046ZZ	4	1st	77.0	1.2	2.85	BF-IB	SR	Cr	Fe	23040-2B000
GAMMA 1.6	1,591				2nd	77.0	1.2	3.05	TUC	CR	Fe	Fe	23040-2B600
					Oil	77.0	2.0	2.55	NIFF-H	SR	Cr	Fe	
G4FC GAMMA 1.6	1,591	Accent Celesta Elantra Verna Solaris i20 ix20	SWG30070ZZ	4	1st	77.0	1.2	2.5	BF-IB	SR	GN	GN	23040-2B800
					2nd	77.0	1.2	3.05	TUC	CR	Fe	Fe	
					Oil	77.0	2.0	2.4	NIFF-H	SR	GN	GN	
G4GR BETA 1.6 J2	1,559	Elantra	SWG30025ZZ	4	1st	77.4	1.2	2.85	BF-IB	SR	Cr	Fe	23040-23100
					2nd	77.4	1.2	3.3	T1	CR	Fe	Fe	23040-23150
					Oil	77.4	2.5	2.8	NIFF-S	SR	Cr	Fe	23040-23912
FB	1,793	Spectra 1.8	SWG30040ZZ	4	1st	81.0	1.2	3.3	BF-IB	SR	Cr	Fe	23040-2Y000
					2nd	81.0	1.2	3.4	TUC	CR	Fe	Fe	
					Oil	81.0	2.5	2.85	NIFF-S	SR	Cr	Fe	
2K0 Nu 1.8L	1,797	Elantra 11	SWG30059ZZ	4	1st	81.0	1.0	2.7	BF-IB	SR	GN	GN	23040-2E000
					2nd	81.0	1.2	3.15	TUC-RB	CR	Fe	Fe	
					Oil	81.0	2.0	2.2	NIFF-H	SR	GN	GN	
Nu 2.0L	1,999	Elantra i40 Tucson	SDG30065ZZ	4	1st	81.0	1.0	2.7	BF-IB	SR	GN	GN	23040-2E200
					2nd	81.0	1.2	3.15	TUC-RB	CR	Fe	Fe	
					Oil	81.0	2.0	2.75	E-BC16	SR	GN	GN	
G4NE	1,999	Sonata Hybrid	SWG30073ZZ (TCC-S-0881)	4	1st	81.0	1.2	2.7	BF-IB	SR	GN	GN	23040-2E152
					2nd	81.0	1.2	3.3	TUC	CR	Fe	Fe	
					Oil	81.0	2.0	2.4	NIFF-H	SR	GN	GN	
G4DM SIRIUS 1.8D	1,836	Sonata	SWG30032ZZ	4	1st	81.5	1.2	3.1	BF	SR	GN	GN	23040-33430
					2nd	81.5	1.5	3.6	T1	CR	Cr	Fe	
					Oil	81.5	3.0	2.55	NIFF-S	SR	GN	GN	
G4GB BETA 1.8	1,796	Avante Tiburon Elantra	SWG30028ZY	4	1st	82.0	1.2	3.05	BF-IB	SR	Cr	Fe	23040-23000
					2nd	82.0	1.2	3.5	T1	CR	Fe	Fe	23040-23050
					Oil	82.0	2.5	2.85	NIFF-S	SR	Cr	Fe	23040-23200

DAIHATSU
SUBARU
HINO
HONDA
ISUZU
KOMATSU
MAZDA
MITSUBISHI
NISSAN
UD TRUCKS
SUZUKI
TOYOTA
DAEWOO
HYUNDAI
KIA
CHINA
ASIA
CHRYSLER
FORD
G M
EUROPE

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
G4GC G4GF BETA 2.0	1,975	Elantra	SWG30054ZZ	4	1st	82.0	1.2	2.85	BF	SR	Cr	Fe	23040-23300
		Elantra Touring			2nd	82.0	1.2	3.05	TUC	CR	Fe	Fe	23040-23400
		Coupe			Oil	82.0	2.0	2.45	NIFF-H	SR	GN	GN	
		Tucson											
G4CR G4RJP SIRIUS 1.6	1,595	Elantra	SWG30021ZZ	4	1st	82.3	1.2	3.1	BF	SR	GN	GN	23040-33030
					2nd	82.3	1.5	3.8	T1	CR	Cr	Fe	
					Oil	82.3	3.0	2.85	NIFF-S	SR	GN	GN	
G4CP 2.0	1,997	Sonata 2.0	SWG30029ZZ	4	1st	85.0	1.5	3.25	BF	SR	Cr	Fe	23040-32800
					2nd	85.0	1.5	3.7	T1	CR	Fe	Fe	
					Oil	85.0	4.0	3.15	NIFF-S	SR	Cr	Fe	
			SWG30026ZZ	4	1st	85.0	1.2	3.1	BF-IB	SR	GN	GN	23040-38100
					2nd	85.0	1.5	3.8	TUC	CR	Fe	Fe	
					Oil	85.0	2.8	2.55	NIFF-S	SR	GN	GN	
G4CP 2.0 SIRIUS 2.0D	1,997	Sonata 2.0 New Sonata	SWG30027ZZ	4	1st	85.0	1.2	3.1	BF	SR	GN	GN	23040-33110
					2nd	85.0	1.5	3.8	TUC	CR	Cr	Fe	23040-33140
					Oil	85.0	3.0	2.55	NIFF-S	SR	GN	GN	23040-33150
THETA 2.0 THETA II 2.0	1,998	NF Sonata 2.0L	SWG30042ZZ	4	1st	86.0	1.2	3.05	BF	SR	Cr	Fe	23040-25000
					2nd	86.0	1.2	3.6	TUC	CR	Fe	Fe	
					Oil	86.0	2.0	2.45	NIFF-H	SR	Cr	Fe	
G4KD	1,975	Sonata Lotze	SWG30042ZY	4	1st	86.0	1.2	2.9	BF	SR	GN	GN	23040-2G000
					2nd	86.0	1.2	3.6	TUC	CR	Fe	Fe	
					Oil	86.0	2.0	2.5	NIFF-H	SR	GN	GN	
G4KH	1,998	Elantra Santa Fe Sonata	SDG30075ZZ (TCC-S-0882)	4	1st	86.0	1.2	3.1	BF	SR	GN	GN	23040-2G400
					2nd	86.0	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	86.0	2.0	2.75	E-BC16	SR	GN	GN	
G4JS SIRIUS II	2,350	Grace (New) Grandeur Grace Grand Salon	SWG30024ZZ	4	1st	86.5	1.5	3.45	BF	SR	Cr	Fe	23040-32610
					2nd	86.5	1.5	3.8	TUC	CR	Fe	Fe	
					Oil	86.5	4.0	3.3	NIFF-S	SR	Cr	Fe	
		Santa Fe 2.4	SWG30047ZZ	4	1st	86.5	1.2	3.1	BF-IB	SR	Cr	Fe	23040-38200
					2nd	86.5	1.5	3.8	TUC	CR	Fe	Fe	23040-38212
					Oil	86.5	2.8	2.55	NIFF-S	SR	Cr	Fe	
G6BA DELTA 2.7	2,656	Delta Hyundai Coupe	SWG30037ZZ	V6	1st	86.7	1.2	3.05	BF-IB	SR	Cr	Fe	23040-37300
					2nd	86.7	1.2	3.6	T1	CR	Fe	Fe	
					Oil	86.7	2.5	2.9	NIFF-H	SR	Cr	Fe	
		Tiburon Sonata 05 Trajet Tucson	SWG30045ZZ	V6	1st	86.7	1.2	3.05	BF-IB	SR	Cr	Fe	23040-3E001
					2nd	86.7	1.2	3.6	T1	CR	Fe	Fe	
					Oil	86.7	2.0	2.65	NIFF-H	SR	GN	GN	
G4KC THETA II 2.4	2,359	NF Sonata 2.4L Tucson	SWG30041ZZ	4	1st	88.0	1.2	3.05	BF-IB	SR	Cr	Fe	23040-25200
					2nd	88.0	1.2	3.6	TUC	CR	Fe	Fe	
					Oil	88.0	2.0	2.45	NIFF-H	SR	Cr	Fe	
G4KC G4KE G4KG G4KJ	2,359	Sonata Santa Fe	SDG30074ZZ (TCC-S-0872)	4	1st	88.0	1.2	2.9	BF-IB	SR	GN	GN	23040-2G500
					2nd	88.0	1.2	3.1	TUC	SR	Fe	Fe	
					Oil	88.0	2.0	2.75	E-BC16	SR	GN	GN	

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● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
D4FA	1,493	Verna HD65 Truck	SDG30060ZZ	4	1st	75.0	1.75	2.9	BF-IB	SR	GN	GN	23040-2A900
					2nd	75.0	1.75	3.15	T1-IC	CR	Cr	Fe	
					Oil	75.0	3.0	3.0	E-BC16	SR	GN	GN	
D3EA	1,493	Accent LC	SDG30053ZZ	3	1st	83.0	1.93	2.9	BF-K1	SR	GN	GN	
					2nd	83.0	2.0	3.8	T1-RB	CR	Cr	Fe	
					Oil	83.0	3.0	3.25	E-BC16	SR	GN	GN	
D4EA	1,991	Santa Fe 2.0 Tucson Sonata	SDG30043ZZ	4	1st	83.0	1.93	2.9	BF-K1	SR	GN	GN	23040-27950 23040-27920
					2nd	83.0	2.0	3.8	T1-RB	CR	Cr	Fe	
					Oil	83.0	3.0	3.25	E-BC16	SR	GN	GN	
R-Line 2.0	1,995	iX35 Santa Fe Tucson	SDG30066ZZ	4	1st	84.0	2.43	3.05	BF-K1	HB	Cr	Fe	23040-2F930 23040-2F900
					2nd	84.0	2.0	3.6	T1	CR	Fe	Fe	
					Oil	84.0	3.0	3.25	E-BC16	SR	GN	GN	
D6EA	2,959	Veracruz	SDG30072ZX	V6	1st	84.0	2.5	3.1	BF-K1	SR	GN	GN	23040-3A900
					2nd	84.0	1.75	3.5	T1	CR	Fe	Fe	
					Oil	84.0	3.0	3.25	E-BC16	SR	GN	GN	
R-Line 2.2 D4HB	2,199	Santa Fe Grandeur	SDG30067ZZ	4	1st	85.4	2.45	3.1	BF-K1	HB	Cr	Fe	23040-2F910
					2nd	85.4	2.0	3.5	T1-RB	HB	Fe	Fe	
					Oil	85.4	3.0	3.25	E-BC16	SR	GN	GN	
D4EB	2,188	Santa Fe 2.2 CRDI	SDG30052ZZ	4	1st	87.0	2.5	3.35	BF-K2	HB	Cr	Fe	23040-27940
					2nd	87.0	2.0	3.7	T1	CR	Cr	Fe	
					Oil	87.0	3.0	3.85	E-BC16	CR	Cr	Fe	
			SDG30061ZZ	4	1st	87.0	2.5	3.3	BF-K1	SR	GN	GN	23040-27960
					2nd	87.0	2.0	3.7	T1-IC	HB	Cr	Fe	
					Oil	87.0	3.0	3.25	E-BC16	SR	GN	GN	
D4CB	2,497	H-1 Libero Sorento Starex i 800 Satellite	SDG30049ZZ	4	1st	91.0	2.44	3.3	BF-K2	HB	Cr	Fe	23040-4A900 23040-4A910
					2nd	91.0	2.0	4.0	T1-RB	CR	Cr	Fe	
					Oil	91.0	3.0	3.25	E-BC16	SR	GN	GN	
			SDG30062ZZ	4	1st	91.0	2.5	3.3	BF-K2	SR	GN	GN	23040-4A940
					2nd	91.0	2.0	3.9	T1-IC	CR	Cr	Fe	
					Oil	91.0	3.0	3.25	E-BC16	SR	GN	GN	
D4BF	2,476	Gallopier Grace Turbo Starex Turbo	SDG30009ZX	4	1st	91.1	2.5	3.25	BF-K2	SR	Cr	Fe	23040-42850 1110A561 23040-42510
					2nd	91.1	2.0	3.9	T1-K2	CR	Cr	Fe	
					Oil	91.1	4.0	4.35	E-BC16	SR	GN	GN	
D4BA(OLD) 1 ton	2,476	Grace Porter	SDG30003ZX	4	1st	91.1	2.5	3.45	BF	SR	Cr	Fe	23040-42000
					2nd	91.1	2.0	3.8	T1	CR	Cr	Fe	
					Oil	91.1	4.0	4.35	E-BC16	SR	GN	GN	
D4BA(NEW) 1 ton	2,476	Grace Porter Gallopier	SDG30010ZX	4	1st	91.1	2.0	3.3	BF	SR	GN	GN	23040-42010
					2nd	91.1	2.0	3.8	T1	CR	Cr	Fe	
					Oil	91.1	4.0	4.35	E-BC16	SR	GN	GN	
D4BC D4BA D4BF D4BH	2,476	H100 Gallopier Grace Starex Porter T, T2	SDG30011ZX	4	1st	91.1	2.0	3.3	BF	SR	GN	GN	23040-42210 23040-42200 23040-42202
					2nd	91.1	2.0	3.8	T1	CR	Cr	Fe	
					Oil	91.1	3.0	3.25	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
J3CRDI	2,902	Terracan	SDG30044ZY	4	1st 2nd Oil	97.1 97.1 97.1	2.45 2.0 3.0	3.5 3.9 3.25	BF-K2 T1-RB E-BC16	HB HB SR	Cr Cr GN	Fe Fe GN	23040-4X920
D4AE D4AL	3,298	Mighty II 3.5ton	SDG30002ZZ	4	1st 2nd Oil	100.0 100.0 100.0	3.0 2.0 4.0	4.0 4.2 4.35	BF-K1-HB T1-IC E-BC16	HB CR SR	Cr Cr GN	Fe Fe GN	23040-41400
D4AE(OLD)	3,298	Mighty	SDG30004ZX	4	1st 2nd Oil	100.0 100.0 100.0	3.0 2.0 5.0	3.65 4.2 4.95	BF-K2 T1-IC E-BC16	SR CR SR	Cr Cr GN	Fe Fe GN	23040-41060
D4AF K-1	3,567	Mighty	SDG30005ZX	4	1st 2nd Oil	104.0 104.0 104.0	3.0 2.0 4.0	3.65 4.2 4.4	BF-K2 T1-IC E-BC16	SR CR SR	Cr Cr GN	Fe Fe GN	23040-41200
D4DD	3,907	HD65 HD78	SDG30057ZZ	4	1st 2nd Oil	104.0 104.0 104.0	2.806 2.0 3.0	3.7 4.2 3.25	BF-K1 T1-IC E-BC16	SR CR SR	GN Cr GN	GN Fe GN	23040-45500
D6DA	6,606	Aero Aero Town	SDG30068ZZ	6	1st 2nd Oil	109.0 109.0 109.0	2.806 2.5 4.0	4.5 4.6 4.45	BF-K1 T1-IC E-BC16	HB HB SR	Cr Cr GN	Fe Fe GN	K0BRI-11-SCO
D6BR	7,545	4.5ton Truck 5ton Truck	SDG30006ZZ	6	1st 2nd Oil	118.0 118.0 118.0	3.0 2.5 4.0	4.25 4.6 4.4	BF T1-IC E-BC16	SR CR SR	Cr Cr GN	Fe Fe GN	23040-93000
D6AB D6AC	11,149	Aero City Aero Town Aero Express HSX	SDG30008ZZ	6	1st 2nd Oil	130.0 130.0 130.0	3.306 3.0 6.0	5.4 5.3 5.5	BF-K1 T1-IC E-BC16	HB CR CR	Cr Cr Cr	Fe Fe Fe	23040-83020 23430-83000
D6CB	11,149	Aero City Aero Town Aero Express HSX	SDG30014ZX	6	1st 2nd Oil	130.0 130.0 130.0	3.306 3.0 4.0	4.55 5.3 4.35	BF-K1 T1-IC E-BC16	SR CR SR	Cr Cr GN	Fe Fe GN	23040-83030
D6AC	11,149	Aero Air Compressor	SDG30012ZZ	6	1st 2nd Oil	130.0 130.0 130.0	3.306 3.0 6.0	4.55 5.2 5.5	BF-K1 T1-IC E-BC16	SR CR CR	Cr Cr Cr	Fe Fe Fe	23040-83000
D70 D6CA	12,920	Samco	SDG30048ZZ	6	1st 2nd Oil	133.0 133.0 133.0	3.33 3.0 4.0	5.4 5.35 4.15	BF-K1 T1 E-BC16	HB HB SR	Cr Cr Cr	Fe Fe Fe	23430-84010
D8AX	16,031	15ton Truck 18ton Truck	SDG30007ZZ	V8	1st 2nd 3rd Oil	135.0 135.0 135.0 135.0	3.306 3.0 3.0 4.0	5.4 5.5 5.5 4.35	BF-K1 T1-IC B1-UC E-BC16	HB CR CR SR	Cr Cr Cr GN	Fe Fe Fe GN	23040-72020 23040-72800
D8AY D8AX	16,031	15ton Truck 18ton Truck	SDG30013ZZ	V8	1st 2nd 3rd Oil	135.0 135.0 135.0 135.0	3.306 3.0 3.0 6.0	5.4 5.5 5.5 5.7	BF-K1 T1-IC B1-UC E-BC16	HB CR CR CR	Cr Cr Cr Cr	Fe Fe Fe Fe	23040-72000

● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
B1	1,138	Pride	SWK30018ZZ	4	1st	68.0	1.2	2.45	BF	SR	Cr	Fe	KK1Y-11-SCO
B3	1,324				2nd	68.0	1.5	3.1	TUC	CR	Fe	Fe	KK1Y8-11-SCO
					Oil	68.0	3.0	2.95	NIFF-S	SR	Cr	Fe	KKY1-11-SCO
C10	785	Towner	SWK30021ZZ	3	1st	70.0	1.2	2.5	BF-IB	SR	GN	GN	K0BMI-11-SCO
					2nd	70.0	1.5	3.0	TUC	CR	Fe	Fe	
					Oil	70.0	2.8	2.85	NIFF-S	SR	GN	GN	
B3	1,324	Pride	SWK30017ZZ	4	1st	71.0	1.2	2.47	BF	SR	Cr	Fe	K1Y0-11-SCO
					2nd	71.0	1.5	3.1	TUC	CR	Fe	Fe	K1Y1-11-SCO
					Oil	71.0	3.0	2.92	NIFF-S	SR	Cr	Fe	
1Y0 Kappa II 1.0L	998	Picanto	SWK30028ZZ	3	1st	71.0	1.0	2.3	BF-IB	SR	GN	GN	23040-04100
					2nd	71.0	1.2	2.5	TUC	CR	Fe	Fe	
					Oil	71.0	2.0	1.95	NIFF-H	SR	GN	GN	
B3 EURO4	1,324	Pride Rio	SWK30031ZZ	4	1st	71.0	1.2	2.5	BF	SR	GN	GN	
					2nd	71.0	1.2	2.5	TUC	CR	Fe	Fe	
					Oil	71.0	2.0	1.95	NIFF-H	SR	GN	GN	
DC	1,493	Rio	SWK30019ZZ	4	1st	75.5	1.2	2.85	BF-IB	SR	Cr	Fe	OK3Y0-11-SCO
					2nd	75.5	1.2	3.3	TUC	CR	Fe	Fe	OK3Y2-11-SCO
					Oil	75.5	2.5	2.75	NIFF-H	SR	GN	GN	
B6D	1,597	Sephia	SWK30026ZZ	4	1st	78.0	1.5	3.05	BF	SR	Cr	Fe	OK2Y2-11-SCO
					2nd	78.0	1.5	3.4	TUC	CR	Fe	Fe	OK2Y0-11-SCO
					Oil	78.0	3.0	3.0	NIFF-S	SR	Cr	Fe	
		Spectra	SWK30027ZZ	4	1st	78.0	1.2	2.85	BF-IB	SR	Cr	Fe	OK3Y3-11-SCO
					2nd	78.0	1.2	3.3	TUC	CR	Fe	Fe	
					Oil	78.0	2.5	2.8	NIFF-S	SR	Cr	Fe	
KV20 B5D	1,498	Sephia Capital	SWK30020ZZ	4	1st	78.0	1.5	3.05	BF	SR	Cr	Fe	K9Y1-11-SCO
					2nd	78.0	1.5	3.4	TUC	CR	Fe	Fe	
					Oil	78.0	4.0	3.05	NIFF-S	SR	Cr	Fe	
ROVER KV6 2.5L	2,497	Carnival	SWK30025ZZ	V6	1st	80.0	1.2	2.9	BF-IB	SR	Cr	Fe	OK9YV-11-SCO
					2nd	80.0	1.5	3.4	TUC	CR	Fe	Fe	
					Oil	80.0	2.5	2.85	NIFF-S	SR	Cr	Fe	
NuGDI 2.0L	1,999	Carens	SWK30030ZZ	4	1st	81.0	1.5	3.1	BF	SR	GN	GN	OK2Y3-11-SCO
					2nd	81.0	1.5	3.4	T1	CR	Fe	Fe	
					Oil	81.0	3.0	2.85	NIFF-H	SR	GN	GN	
FE FED	1,998	Sportage	SWK30022ZZ	4	1st	86.0	1.5	3.3	BF	SR	GN	GN	OKFY3-11-SCO
					2nd	86.0	1.5	3.8	TUC	CR	Fe	Fe	
					Oil	86.0	4.0	3.05	NIFF-S	SR	GN	GN	
G8BA Tau 4.6	4,627	Borrego Mohave Equus Genesis	TCC-P-0738	V8	1st	92.0	1.2	3.27	BF-IB	SR	Cr	Fe	23040-3F300
					2nd	92.0	1.2	3.4	TUC	CR	Fe	Fe	23040-3F302
					Oil	92.0	2.0	2.7	NIFF-H	SR	Cr	Fe	

● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
D4FB D4FD	1,582	Cerato	SDK30029ZZ	4	1st	77.2	1.75	2.9	BF-IB	SR	GN	GN	23040-2A960
		Ceed			2nd	77.2	1.75	3.1	T1-IC	HB	Cr	Fe	23040-2A908
		Soul Venga			Oil	77.2	3.0	3.0	E-BC16	SR	GN	GN	
D6EA	2,959	Mohave	SDG30072ZX	V6	1st	84.0	2.5	3.1	BF-K1	SR	GN	GN	23040-3A900
					2nd	84.0	1.75	3.5	T1	CR	Fe	Fe	
					Oil	84.0	3.0	3.25	E-BC16	SR	GN	GN	
NB1(OLD)	2,184	Besta	SDK30006ZZ	4	1st	86.0	2.0	3.05	BF-IB	SR	Cr	Fe	R201-23-130
					2nd	86.0	2.0	3.6	T1-IC	CR	Fe	Fe	
					Oil	86.0	4.0	4.15	E-BC16	SR	GN	GN	
NB7	2,184	Sportage Sportage Turbo	SDK30011ZX	4	1st	86.0	2.0	3.05	BF-IB	SR	Cr	Fe	K7Y1-11-SCO
					2nd	86.0	2.0	3.6	T1-IC	CR	Cr	Fe	
					Oil	86.0	3.0	3.25	E-BC16	SR	GN	GN	
R2 NB1(NEW)	2,184	New Besta	SDK30013ZX	4	1st	86.0	2.0	3.05	BF-K2	SR	Cr	Fe	K7Y0-11-SCO
					2nd	86.0	2.0	3.6	T1-IC	CR	Fe	Fe	
					Oil	86.0	4.0	4.15	E-BC16	SR	GN	GN	
S2 XA	2,209 2,522	Bongo Ceres	SDK30007ZX	4	1st	88.925	2.383	3.45	BF	SR	Cr	Fe	K6ZO-11-SCO
					2nd	88.925	2.383	3.5	T1-IC	CR	Fe	Fe	
					Oil	88.925	4.763	4.6	E-BC16	SR	GN	GN	
D4BH D4BF	2,476	Pregio Galloper Satellite	TCC-P-0715	4	1st	91.1	2.5		BF-K2	SR	GN	GN	23040 42510
					2nd	91.1	2.0		T1-K2	SR	GN	GN	
					Oil	91.1	4.0		E-BC16	SR	GN	GN	
SF	2,417	K2400 Bongo Porter Bongo Wide Bongo	SDK30005ZX	4	1st	92.0	2.4	3.8	BF	CR	Cr	Fe	K7Z0-11-SCO
					2nd	92.0	2.4	3.8	T1	CR	Fe	Fe	K756-23-206
					Oil	92.0	4.0	4.35	E-BC16	SR	GN	GN	
SS SUTC	2,700	Besta Hi Topic	SDK30004ZX	4	1st	92.0	2.85	3.45	BF-K1	SR	Cr	Fe	K4Z0-11-SCO
					2nd	92.0	2.4	3.8	T1	CR	Fe	Fe	K480-23-206
					Oil	92.0	4.0	4.35	E-BC16	SR	GN	GN	
ZB	4,052	K4100	SDK30012ZX	6	1st	92.025	2.383	3.45	BF	SR	Cr	Fe	OK8Y1-11-SCO
					2nd	92.025	2.383	3.6	T1-IC	CR	Cr	Fe	
					Oil	92.025	4.763	4.6	E-BC16	SR	GN	GN	
RFA VN	2,662	Hi Besta	SDK30009ZZ	4	1st	93.0	2.0	3.25	BF-IB	SR	Cr	Fe	VNY1-11-SCO
					2nd	93.0	2.0	3.7	TUC	CR	Cr	Fe	
					Oil	93.0	3.0	3.25	E-BC16	SR	GN	GN	

- DAIHATSU
- SUBARU
- HINO
- HONDA
- ISUZU
- KOMATSU
- MAZDA
- MITSUBISHI
- NISSAN
- UD TRUCKS
- SUZUKI
- TOYOTA
- DAEWOO
- HYUNDAI
- KIA
- CHINA
- ASIA
- CHRYSLER
- FORD
- G M
- EUROPE

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
JS J2	2,665	K2700 Pregio	SDK30001ZZ	4	1st	94.5	2.0	3.3	BF	SR	GN	GN	K6Z1-11-SCO
					2nd	94.5	2.0	4.0	T1-IC	CR	Cr	Fe	
					Oil	94.5	3.0	3.25	E-BC16	SR	GN	GN	
HA1	2,957	K3000 Super Titan	SDK30010ZZ	4	1st	95.0	2.383	3.45	BF	SR	Cr	Fe	KOY0-11-SCO
					2nd	95.0	2.383	3.8	T1	CR	Cr	Fe	
					Oil	95.0	4.0	4.15	E-BC16	SR	GN	GN	
J3 TCI	2,902	Carnival	SDK30016ZZ	4	1st	97.1	2.0	3.5	BF-K2	SR	GN	GN	K5Z1-11-SCO
					2nd	97.1	2.0	3.9	T1-IC	CR	Cr	Fe	
					Oil	97.1	3.0	3.25	E-BC16	SR	GN	GN	
JT	2,956	K3000 K4000	SDK30008ZZ	4	1st	98.0	2.0	3.65	BF-IB	SR	Cr	Fe	K7Z1-11-SCO
					2nd	98.0	2.0	3.9	T1-IC	CR	Cr	Fe	
					Oil	98.0	3.0	3.25	E-BC16	SR	GN	GN	
JD	3,455	Trade K3500	SDK30014ZX	4	1st	100.0	2.5	3.65	BF	SR	Cr	Fe	K4Y0-11-SCO
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	100.0	4.5	4.6	E-BC16	SR	GN	GN	
SH	3,598	Trade K3600	SDK30003ZZ	4	1st	100.0	2.0	3.7	BF	SR	GN	GN	K4Y1-11-SCO
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	100.0	3.0	3.25	E-BC16	SR	GN	GN	
H07C	6,728	Cosmos	SDK30015ZX	6	1st	110.0	3.0	4.1	BF	SR	GN	GN	OK8Y0-11-SCO
					2nd	110.0	2.5	4.5	T1-IC	CR	Fe	Fe	
					3rd	110.0	2.5	4.5	B1-TUC	CR	Cr	Fe	
					Oil	110.0	5.0	4.95	E-BC16	SR	GN	GN	
EF750	16,745	Granto Granbird	SDK30023ZZ	V8	1st	137.0	3.306	5.4	BF-K1	HB	Cr	Fe	AA92F-11120
					2nd	137.0	3.5	5.4	T1-IC	CR	Fe	Fe	
					3rd	137.0	3.5	5.4	B1-TUC	CR	Cr	Fe	
					Oil	137.0	6.0	5.5	E-BC3	CR	Cr	Fe	

NIPPON PISTON RING CO.,LTD.

● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
CD800 JADE	796	Towner	SWA20001ZZ	3	1st	70.0	1.2	2.5	BF-IB	SR	GN	GN	AA100-11-120
					2nd	70.0	1.5	3.0	TUC	CR	Fe	Fe	
					Oil	70.0	2.8	2.85	NIFF-S	SR	GN	GN	

● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
EM100	9,419	Truck	SDA20002ZX	6	1st	124.0	2.806	4.45	BF-K1	SR	Cr	Fe	EA1522-2010AS
					2nd	124.0	2.5	5.0	T1-IC	CR	Cr	Fe	
					3rd	124.0	3.0	5.0	BI-TUC	CR	Cr	Fe	
					Oil	124.0	5.0	4.95	E-BC16	SR	GN	GN	

● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
6G73	2,497	Avenger Cirrus Stratus	SWC10009ZZ	V6	1st	83.5	1.2	2.85	BF	SR	Cr	Fe	MD310258 MD159836
					2nd	83.5	1.5	3.5	T1	CR	Fe	Fe	
					Oil	83.5	3.0	2.85	NIFF-S	SR	Cr	Fe	
EER 2.7	2,736	Concorde	SWC10001ZZ	V6	1st	86.0	1.5	3.45	BF	SR	Cr	Fe	4897027 AA
		Interpid			2nd	86.0	1.5	4.0	T1-RB	CR	Fe	Fe	
ELLESMERE L81	2,962	Stratus			Oil	86.0	3.0	3.0	NIFF-S	SR	Cr	Fe	
SLANT 6	3,687	Pick up Ram Van Ram Wagon	SWC10017ZZ	V6	1st	86.36	1.98	4.0	BF	CR	Cr	Fe	4131203 4131214 4131205
					2nd	86.36	1.98	4.0	T1-RB	CR	Fe	Fe	
					Oil	86.36	4.76	4.2	NIFF-S	SR	Cr	Fe	
K 2.2	2,212	Acclaim	SWC10003ZZ	4	1st	87.5	1.5	3.8	BF	CR	Cr	Fe	4626636 4411977 4626575
K 2.2T	2,507	Caravan			2nd	87.5	1.5	4.0	T1-RB	CR	Fe	Fe	
K 2.5		Dakota			Oil	87.5	4.0	3.8	NIFF-S	SR	Cr	Fe	
K 2.5T													
EDZ 2.4	2,429	Stratus Sebring	SWC10004ZZ	4	1st	87.5	1.2	2.9	BF	SR	GN	GN	4897024 AA
					2nd	87.5	1.5	3.9	T1-RB	CR	Cr	Fe	
					Oil	87.5	3.0	2.55	NIFF-S	SR	GN	GN	
EDT 2.4	2,429	Neon PT Cruiser Wranger	SWC10010ZY	4	1st	87.5	1.2	2.9	BF	SR	GN	GN	5093441 AA 4798324
					2nd	87.5	1.5	4.0	TUC	CR	Fe	Fe	
					Oil	87.5	2.5	2.8	NIFF-S	SR	Cr	Fe	
EDZ 2.4 POWERTECH 2.4	2,429	Sebring Stratus	SWC10007ZZ	4	1st	87.5	1.5	3.3	BF-IB	SR	GN	GN	5073524 AA 4773005
					2nd	87.5	1.5	4.0	TUC	CR	Fe	Fe	
					Oil	87.5	3.0	2.55	NIFF-S	SR	GN	GN	
TIGERSHARK 2.0	1,998	200 Cherokee	SWC10027ZZ	4	1st	88.0	1.2	2.7	BF	SR	GN	GN	68165801AA 68231951AB
		Dart			2nd	88.0	1.2	3.35	TUC	CR	Fe	Fe	
					Oil	88.0	2.0	2.55	NIFF-H	SR	GN	GN	
TIGERSHARK 2.4	2,359	Renegade											
EGW 3.2	3,195	Concorde Interpid	SWC10008ZZ	V6	1st	92.0	1.2	3.3	BF	SR	GN	GN	4897032 AA
					2nd	92.0	1.5	4.1	TUC	CR	Fe	Fe	
					Oil	92.0	3.0	3.05	NIFF-S	SR	GN	GN	
EGA 3.3 POWERTECH 3.7	3,293 3,701	Grand Caravan Voyager	SWC10002ZZ	V6	1st	93.0	1.5	3.25	BF	SR	Cr	Fe	4897033 AA 5241052 5012364 AC
					2nd	93.0	1.5	3.9	T1-RB	CR	Fe	Fe	
					Oil	93.0	3.0	3.0	NIFF-S	SR	Cr	Fe	
EGJ 3.5 EGH 3.8	3,507 3,802	Concorde Interpid	SWC10005ZZ	V6	1st	96.0	1.5	3.5	BF	SR	GN	GN	4626388 4626660
					2nd	96.0	1.5	4.0	T1-RB	CR	Fe	Fe	
					Oil	96.0	3.0	3.2	NIFF-S	SR	GN	GN	
EGG 3.5 EGQ 4.0 EGS 4.0	3,518 3,952	Pacifica Nitro Concorde	SWC10013ZZ	V6	1st	96.0	1.2	3.5	BF	SR	GN	GN	4897035 AA
					2nd	96.0	1.5	4.0	TUC	CR	Fe	Fe	
					Oil	96.0	3.0	3.45	NIFF-S	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
EGJ 3.5 EGH 3.8 SMPI 4.0	3,523	Concorde	SWC10015ZX	V6	1st	96.0	1.2	3.5	BF	SR	GN	GN	4773023
	3,778	Grand Caravan			2nd	96.0	1.5	4.0	T1-RB	CR	Fe	Fe	
	3,952	Town & Countly			Oil	96.0	3.0	3.2	NIFF-S	SR	GN	GN	
PENTASTAR 3.6L	3,604	200 300	SWC10025ZZ	V6	1st	96.0	1.2	3.1	BF	SR	GN	GN	68078776AA
		Avenger			2nd	96.0	1.2	3.7	TUC	CR	Fe	Fe	
		Challenger			Oil	96.0	2.0	2.55	NIFF-H	SR	GN	GN	
AMC 150	2,464	Cherokee	SWC10011ZX	4	1st	98.43	1.5	3.5	BF	SR	GN	GN	4798324
		Dakota			2nd	98.43	1.5	4.5	T1-RB	CR	Fe	Fe	
					Oil	98.43	4.0	3.2	NIFF-S	SR	Cr	Fe	
POWERTECH 4.0	3,966	Wrangler	SWC10012ZY	V6	1st	98.43	1.5	3.5	BF	SR	GN	GN	4798878
		Cherokee			2nd	98.43	1.5	4.5	T1-RB	CR	Fe	Fe	
					Oil	98.43	4.0	3.2	NIFF-S	SR	Cr	Fe	
LA239	3,917	Pick up	SWC10018ZZ	V6	1st	99.31	2.0	4.5	BF-IB	CR	Cr	Fe	3780007
		Ram Van			2nd	99.31	2.0	4.5	T1-RB	CR	Fe	Fe	
		Dakota			Oil	99.31	4.76	4.2	NIFF-S	SR	Cr	Fe	
LA318 MAGNUM 5.2	5,211	Pick up	SWC10019ZZ	V8	1st	99.31	2.0	4.5	BF-IB	CR	Cr	Fe	2808553
		Ram Van			2nd	99.31	2.0	4.5	T1-RB	CR	Fe	Fe	2808550
		Ram Wagon			Oil	99.31	4.76	4.2	NIFF-S	SR	Cr	Fe	3780007
MAGNUM 5.2	5,211	Dakota	SWC10020ZX	V8	1st	99.31	2.0	3.45	BF	SR	Cr	Fe	4638060
		Ram Van			2nd	99.31	2.0	4.5	T1	CR	Fe	Fe	4720727
		Ram Wagon			Oil	99.31	4.0	3.1	NIFF-S	SR	GN	GN	
HEMI 5.7 EZB HEMI 5.7	5,654	Durango	SWC10016ZX	V8	1st	99.5	1.5	3.5	BF	SR	GN	GN	5086002 AA
		Ram 1500			2nd	99.5	1.5	4.5	T1-RB	CR	Fe	Fe	
		Ram 2500			Oil	99.5	3.0	2.85	NIFF-S	SR	GN	GN	
HEMI 5.7L	5,654	Challenger	SWC10024ZZ	V8	1st	99.5	1.2	3.1	BF	SR	GN	GN	68046210AB
		Charger			2nd	99.5	1.2	4.0	TUC	CR	Fe	Fe	
		Grand Cherokee			Oil	99.5	2.0	2.7	NIFF-H	SR	Cr	Fe	
HEMI 6.4 HEMI 6.4 ESG	6,424	300	SWC10026ZZ	V8	1st	103.9	1.5	3.3	BF	SR	GN	GN	68092206AA
		Challenger			2nd	103.9	1.2	4.2	TUC	CR	Cr	Fe	
		Charger			Oil	103.9	2.0	2.8	NIFF-H	SR	GN	GN	
		Durango											
		Grand Cherokee											
		Ram 2500											
		Ram 3500											
		Ram 4500 Chassis											
		Ram 5500 Chassis											

● Diesel-engine Automobiles ●ディーゼル車●

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● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
ZETEC ROCAM	999	Escort Fiesta Ka Focus EcoSport	SWF30033ZZ	4	1st	68.68	1.2	2.5	BF	SR	GN	GN	A59870
					2nd	68.68	1.5	2.85	TUC	CR	Fe	Fe	
					Oil	68.68	2.0	3.1	NIFF-H	SR	Cr	Fe	
ECOBOOST 16T	1,596	Escape Fiesta Fusion Transit Concept	SWF30030ZZ	4	1st	79.0	1.2	2.9	BF	SR	GN	GN	CJ5Z 6148 A CJ5Z 6148 B
					2nd	79.0	1.2	2.9	TUC	SR	Fe	Fe	
					Oil	79.0	2.0	2.45	NIFF-H	SR	GN	GN	
ZL16 ROCAM	1,596	Focus	SWF30017ZZ	4	1st	82.0	1.2	2.85	BF	SR	Cr	Fe	XS6E 6148 DA
					2nd	82.0	1.5	3.5	TUC	CR	Fe	Fe	
					Oil	82.0	2.0	3.05	NIFF-H	SR	Cr	Fe	
DURATEC VE DURATEC 25SVT	2,540	Contour	SWF30003ZZ	6	1st	82.5	1.2	2.9	BF	SR	GN	GN	F5RZ 6148E XS2Z 6148 AA
					2nd	82.5	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	82.5	3.0	2.85	NIFF-S	SR	GN	GN	
FS FS05	1,991	Probe	SWF30001ZZ	4	1st	83.0	1.2	3.1	BF-IB	SR	GN	GN	FSY2-11-SCO E62Z 6149 AA
					2nd	83.0	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	83.0	3.0	3.2	NIFF-S	SR	Cr	Fe	
ECOBOOST 27T ECOBOOST 27TT	2,687	Bronco Continental Edge Sport F150 Fusion MKX Nautilus	SWF30031ZZ	V6	1st	83.0	1.2	2.7	BF	SR	GN	GN	FT4Z-6148-A
					2nd	83.0	1.2	3.1	TUC	CR	Fe	Fe	
					Oil	83.0	2.0	2.2	NIFF-H	SR	GN	GN	
ZETEC-R 2.0	1,991	Cougar Escape Focus ZX2	SWF30002ZZ	4	1st	84.8	1.5	3.05	BF	SR	Cr	Fe	YS4Z 6135 AA F8CZ 6148 AA
					2nd	84.8	1.75	3.9	TUC	CR	Fe	Fe	
					Oil	84.8	3.0	3.2	NIFF-S	SR	Cr	Fe	
CVH 2.0	1,986	Focus Escape Tracer	SWF30005ZZ	4	1st	84.86	1.5	3.1	BF	SR	GN	GN	F7CZ 6148 AA 2MGZ 6135 AA
					2nd	84.86	1.5	3.9	T1-RB	CR	Fe	Fe	
					Oil	84.86	3.0	3.1	NIFF-S	SR	GN	GN	
ZETEC-E 2.0	1,991	Mystique	SWF30007ZZ	4	1st	84.86	1.5	3.1	BF	SR	GN	GN	F5RZ 6148 A
					2nd	84.86	1.75	3.8	TUC	CR	Fe	Fe	
					Oil	84.86	3.0	3.1	NIFF-S	SR	GN	GN	
ECOBOOST 30TT	2,967	Aviator Explorer Continental MKZ	SWF30037ZZ (TCC-Q-0774)	V6	1st	85.4	1.2	2.7	BF	SR	GN	GN	GB8Z 6148 C
					2nd	85.4	1.2	2.9	TUH	SR	Fe	Fe	
					Oil	85.4	2.0	2.45	NIFF-H	SR	GN	GN	
ECOBOOST 20T DURATEC 20H	1,999	Escape Focus Fusion Taurus	SWF30023ZZ	4	1st	87.5	1.2	2.9	BF	SR	GN	GN	AG9Z 6148 A CM5Z 6148 AB
					2nd	87.5	1.2	3.4	TUC	CR	Fe	Fe	
					Oil	87.5	2.0	2.5	NIFF-H	SR	GN	GN	
DURATEC 25	2,488	Escape Fusion Escape hybrid Fusion hybrid	SWF30024ZZ	4	1st	89.0	1.2	2.9	BF-IB	SR	GN	GN	9E5Z 6148 A
					2nd	89.0	1.2	3.8	TUC	CR	Fe	Fe	
					Oil	89.0	2.5	2.45	NIFF-H	SR	GN	GN	
VULCAN V6	2,997	Sable Taurus Ranger	SWF30016ZZ	V6	1st	89.0	1.5	3.45	BF	SR	Cr	Fe	4F1Z 6148 CA 2F1Z 6148 AA
					2nd	89.0	1.5	3.7	TUC	CR	Fe	Fe	
					Oil	89.0	3.0	2.95	NIFF-S	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
DURATEC 30	2,967	Fusion Taurus	SWF30021ZZ	V6	1st 2nd Oil	89.0 89.0 89.0	1.2 1.5 2.5	3.5 4.1 2.85	BF TUC NIFF-S	SR CR SR	GN Fe GN	GN Fe GN	YF1Z 6148BA
TRITON 46GT TRITON 46V	4,605	Expedition F150 F250	SWF30006ZY	V8	1st 2nd Oil	90.2 90.2 90.2	1.5 1.5 3.0	3.25 4.1 3.25	BF TUC NIFF-S	SR CR SR	Cr Fe Cr	Fe Fe Fe	F5LY 6148 A F7AZ 6148 AA 2L3Z 6148 AA
TRITON 54 TRITON 54V INTECH 54	5,408												
TRITON 46 TRITON 46C INTECH 46	4,605	Continental Mustang Town Car	SWF30008ZZ	V8	1st 2nd Oil	90.2 90.2 90.2	1.2 1.5 3.0	3.3 3.9 3.1	BF T1-RB NIFF-S	SR CR SR	GN Fe GN	GN Fe GN	F8LZ 6148 AA
TRITON 6.8	6,801	Fullsize Van	SWF30019ZY	V10	1st 2nd Oil	90.2 90.2 90.2	1.5 1.5 3.0	3.25 4.1 3.25	BF TUC NIFF-S	SR CR SR	Cr Fe Cr	Fe Fe Fe	2L3Z 6148 AA
COYOTE 50	4,951	F150 Mustang	SWF30027ZZ	V8	1st 2nd Oil	92.2 92.2 92.2	1.2 1.2 2.5	3.1 3.5 2.75	BF TUC NIFF-H	SR HB SR	GN Cr GN	GN Fe GN	CU7Z 6148 A
DURATEC 35	3,496	Edge Fusion Taurus Explorer F150	SWF30026ZZ	V6	1st 2nd Oil	92.5 92.5 92.5	1.2 1.5 2.5	3.1 3.55 2.75	BF TUC NIFF-H	SR CR SR	GN Fe GN	GN Fe GN	ATAZ 6148 C
COLOGNE 29	2,901	Bronco II Ranger	SWF30014ZY	V6	1st 2nd Oil	93.0 93.0 93.0	1.6 1.75 3.5	3.9 3.9 3.05	BF T1 NIFF-S	HB CR SR	Cr Fe GN	Fe Fe GN	E7RY 6148 A
FORD 5.0	4,951	Coyote	TCC-S-0886	V8	1st 2nd Oil	93.0 93.0 93.0	1.2 1.2 2.0		BF TUC NIFF-H	SR SR SR	GN Fe GN	GN Fe GN	JR3Z 6148 B
HSC 2.3	2,311	Tempo Topaz	SWF30011ZX	4	1st 2nd Oil	93.47 93.47 93.47	2.0 2.0 4.76	3.3 4.3 4.2	BF T1-RB NIFF-S	SR CR SR	GN Fe Cr	GN Fe Fe	E63Z 6148 A
HSC 2.5	2,496	Sable Taurus											
DURATEC 37	3,721	Edge Sports Mustang Continental F150 Lincoln MKS Lincoln MKT Lincoln MKX Lincoln MKZ Transit	SWF30034ZZ	V6	1st 2nd Oil	95.5 95.5 95.5	1.2 1.5 2.5	3.1 3.5 2.85	BF TUC NIFF-S	SR CR SR	GN Fe GN	GN Fe GN	BA5Z 6148 C
OHC 2.3	2,295	Tempo Mustang Marquis	SWL03268ZX	4	1st 2nd Oil	96.0 96.0 96.0	1.5 1.5 4.0	3.45 4.0 3.25	BF T1-RB NIFF-S	SR CR SR	Cr Fe Cr	Fe Fe Fe	F1ZZ 6148 A
ESSEX V6 38	3,802	Thunderbird Continental Cougar	SWF30013ZY	V6	1st 2nd Oil	96.8 96.8 96.8	1.5 1.5 4.0	3.45 4.2 3.2	BF T1-RB NIFF-S	SR CR SR	Cr Fe Cr	Fe Fe Fe	E8DZ 6148 A F4DZ 6148 A E9SZ 6148 B
232CI V6 ESSEX V6 38	3,802	Cougar Mustang Marquis	SWF30015ZZ	V6	1st 2nd Oil	96.8 96.8 96.8	2.0 2.0 4.0	4.4 4.4 4.05	BF T1-RB NIFF-S	CR CR SR	Cr Fe Cr	Fe Fe Fe	E2DZ 6148 A

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
ESSEX V6 38 ESSEX V6 42	3,802	Windstar	SWF30004ZZ	V6	1st	96.8	1.5	3.3	BF	SR	GN	GN	F6ZZ 6148 A 2L3Z 6148 KA
	4,195	Mustang			2nd	96.8	1.5	4.2	T1-RB	CR	Fe	Fe	
		Cougar			Oil	96.8	3.0	3.2	NIFF-S	SR	GN	GN	
COLOGNE 40	4,015	Explorer	SWF30012ZZ	V6	1st	100.4	1.2	3.5	BF	SR	GN	GN	2U3Z 6148 AA
		Mustang			2nd	100.4	1.5	4.2	TUC	CR	Fe	Fe	
		Mountaineer			Oil	100.4	3.0	3.25	NIFF-S	SR	Cr	Fe	
BOSS 62	6,211	F150	SWF30032ZZ	V8	1st	102.0	1.5	3.3	BF	SR	GN	GN	AU7Z-6148-G
		F250			2nd	102.0	1.5	4.3	TUC	CR	Fe	Fe	
		F350 Super Duty			Oil	102.0	2.5	2.95	NIFF-H	SR	Cr	Fe	
GODZILLA 7.3	7,298	F250	SWF30036ZZ (TCC-Q-0775)	V8	1st	107.2	1.5	3.5	BF	SR	GN	GN	LC3Z 6148 B
		F350			2nd	107.2	1.2	3.7	TUC	SR	Cr	Fe	
		F450 F550 F650 F750			Oil	107.2	2.5	2.8	NIFF-H	SR	GN	GN	

● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
DURATORQ 2.2L D5BA D6BA	2,198	RANGER	SDF30035ZZ (TCC-Q-0790)	4	1st	86.0	2.0	3.5	BF-IB	HB	Cr	Fe	T207512
		BT-50			2nd	86.0	2.0	3.6	TUC	CR	Fe	Fe	
		Puma Mondeo Transit 2.0			Oil	86.0	2.0	2.75	E-BC16	SR	GN	GN	
TDCi DURATORQ 3.2	3,198	Ranger	SDF30018ZZ (TCC-S-0887)	5	1st	89.9	2.0	3.3	BF	SR	GN	GN	UK01 11 SG0A
		Everst			2nd	89.9	2.0	3.7	TUC	CR	Fe	Fe	
		Transit			Oil	89.9	2.0	2.75	E-BC16	SR	GN	GN	
POWER STROKE 6.0	5,954	Econoline E350	SDF30029ZZ	V8	1st	95.0	2.2	3.7	BF-K1	SR	GN	GN	3C3Z 6148 AA 4C3Z 6148 AA
		Excursion			2nd	95.0	2.0	4.2	T1-RB	CR	Fe	Fe	
		F250/F350 F450/F550			Oil	95.0	3.5	3.75	E-BC16	CR	Cr	Fe	
POWER STROKE 6.4	6,399	F250	SDF30022ZX	V8	1st	98.2	2.35	3.5	BF-K1	SR	GN	GN	8C3Z 6148 AA
		F350			2nd	98.2	2.0	4.3	T1-RB	CR	Fe	Fe	
		F450			Oil	98.2	3.0	3.25	E-BC16	SR	GN	GN	
POWER STROKE 6.7T	6,651	Econoline E450	SDF30025ZZ	V8	1st	99.0	2.85	3.6	BF-K1	HB	Cr	Fe	BC3Z 6148 A
		Econoline E550			2nd	99.0	2.0	3.6	TUC	CR	Fe	Fe	
		F250 F350 F450 F550			Oil	99.0	2.5	2.85	E-BC16	SR	GN	GN	
POWER STROKE 7.3T	7,276	Econoline	SDF30020ZX	V8	1st	104.4	3.0	3.9	BF-K1	SR	GN	GN	F81Z 6148 AA F7TZ 6148 AA
		Excursion			2nd	104.4	2.0	4.0	T1-RB	CR	Fe	Fe	
		F250 F350 F450 F550 F650			Oil	104.4	3.5	3.85	E-BC16	CR	Cr	Fe	

● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
S-TEC II 1.0L	996	Spark	SWG10045ZZ	4	1st	68.5	1.2	2.65	BF-IB	SR	Cr	Fe	93745491
					2nd	68.5	1.2	2.8	T1	CR	Fe	Fe	
					Oil	68.5	2.0	2.55	NIFF-H	SR	Cr	Fe	
S-TEC II 1.2L	1,206	Spark Aveo Sail	SWG10033ZZ	4	1st	69.7	1.2	2.65	BF-IB	SR	Cr	Fe	93744884
					2nd	69.7	1.2	2.8	T1	CR	Fe	Fe	
					Oil	69.7	2.0	2.4	NIFF-H	SR	Cr	Fe	
B12D LAQ	1,206	N200 N300	SWG10047ZZ	4	1st	69.7	1.2	2.5	BF	SR	GN	GN	24545481 25194424
					2nd	69.7	1.2	2.8	T1	HB	Fe	Fe	
					Oil	69.7	2.0	2.5	NIFF-H	SR	GN	GN	
LMU 1.2L		Chevrolet Beat Premier 1.2L											
ECOTEC I4 ECOTEC LLO	1,249	Chevrolet Spark	SWG10051ZZ	4	1st	70.5	1.0	2.3	BF	SR	GN	GN	25191142
					2nd	70.5	1.2	2.55	TUC	CR	Fe	Fe	
					Oil	70.5	2.0	1.95	NIFF-H	SR	GN	GN	
C10NE	999	Corsa Meriva	SWG10055ZZ	4	1st	71.08	1.5	3.0	BF	HB	Cr	Fe	
					2nd	71.08	1.5	3.0	T1	CR	Fe	Fe	
					Oil	71.08	3.0	3.35	NIFF-S	SR	Cr	Fe	
ECOTEC LUJ	1,364	Cruze Encore Sonic Trax	SWG10061ZZ	4	1st	72.5	1.2	2.7	BF-IB	SR	GN	GN	25195065 55571045
					2nd	72.5	1.2	3.0	TUC	CR	Fe	Fe	
					Oil	72.5	2.0	2.6	NIFF-H	SR	Cr	Fe	
S-TEC III 1.4L	1,399	Sail Spin	SWG10034ZZ	4	1st	73.8	1.2	2.5	BF-IB	SR	GN	GN	93736247
					2nd	73.8	1.2	2.8	TUC	HB	Fe	Fe	
					Oil	73.8	2.0	2.45	NIFF-H	SR	GN	GN	
ECOTEC LYX 1.5L (TURBO)	1,490	Equinox Terrain	SWG10058ZZ	4	1st	74.0	1.2	2.7	BF	SR	GN	GN	12682502
					2nd	74.0	1.2	2.9	TUC	CR	Fe	Fe	
					Oil	74.0	2.0	2.8	NIFF-H	SR	GN	GN	
S-TEC III L2B	1,485	Sail 1.5	SWG10065ZZ (TCC-R-0862)	4	1st	74.7	1.0	2.5	BF-IB	SR	GN	GN	93737136
					2nd	74.7	1.0	2.7	TUC	SR	Fe	Fe	
					Oil	74.7	2.0	2.4	NIFF-H	SR	GN	GN	
S-TEC III 1.5L	1,485	Sail Spin	SWG10046ZZ	4	1st	74.71	1.0	2.25	BF	SR	Cr	Fe	25190067
					2nd	74.71	1.2	2.8	TUC	CR	Fe	Fe	
					Oil	74.71	2.0	2.2	NIFF-H	SR	GN	GN	
E-TEC I 1.3L 13N 13S	1,297	Corsa 1.3	SWG10041ZZ	4	1st	75.0	1.5	3.25	BF-IB	SR	Cr	Fe	93244958
					2nd	75.0	1.5	3.3	T1-IB	CR	Fe	Fe	
					Oil	75.0	3.0	2.9	NIFF-S	SR	Cr	Fe	
L4H	1,199	Chevrolet Tracker Turbo 1.2	TCC-S-0895	3	1st	75.0	1.2		BF	SR	GN	GN	55515679
					2nd	75.0	1.2		TUH	SR	Fe	Fe	
					Oil	75.0	2.0		NIFF-H	SR	GN	GN	
E-TEC II 1.5L LV8	1,498	Chevy Taxi Aveo	SWG10030ZZ	4	1st	76.5	1.5	3.1	BF	HB	Cr	Fe	93742961
					2nd	76.5	1.5	3.2	TUC	CR	Fe	Fe	
					Oil	76.5	2.0	2.7	NIFF-H	SR	Cr	Fe	
E-TEC I 1.4L X14XE1	1,389	Corsa 1.4 Evolution	SWG10028ZZ	4	1st	77.6	1.5	2.85	BF-IB	SR	Cr	Fe	93227616
					2nd	77.6	1.5	3.2	TUC	CR	Fe	Fe	
					Oil	77.6	3.0	3.2	NIFF-S	SR	Cr	Fe	
X14YFL X14YFH	1,389	Chevrolet Onix Chevrolet Prisma	SWG10066ZZ (TCC-S-0891)	4	1st	77.6	1.0	2.7	BF	SR	GN	GN	98500222
					2nd	77.6	1.0	2.9	TUC	SR	Fe	Fe	
					Oil	77.6	2.0	2.45	NIFF-H	SR	Cr	Fe	
F14D3 85CB 89CB	1,796	Lacetti	SWG10026ZZ	4	1st	77.88	1.2	2.85	BF	SR	Cr	Fe	93740229
					2nd	77.88	1.5	3.3	TUC	CR	Fe	Fe	
					Oil	77.88	2.5	2.9	NIFF-H	SR	Cr	Fe	

DAIHATSU
SUBARU
HINO
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ISUZU
KOMATSU
MAZDA
MITSUBISHI
NISSAN
UD TRUCKS
SUZUKI
TOYOTA
DAEWOO
HYUNDAI
KIA
CHINA
ASIA
CHRYSLER
FORD
G M
EUROPE

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
E-TEC I 1.6L X16XE1	1,598	Corsa 1.6	SWG10029ZZ	4	1st	79.0	1.2	3.05	BF	SR	Cr	Fe	93235611
					2nd	79.0	1.5	3.3	TUC	CR	Fe	Fe	
					Oil	79.0	3.0	3.0	NIFF-S	SR	Cr	Fe	
E-TEC II 1.6L L91	1,598	Sonic Aveo Aveo5 Cruze G3(Pontiac)	SWG10054ZZ	4	1st	79.0	1.2	2.7	BF	SR	GN	GN	55581399 93744928
					2nd	79.0	1.2	3.2	TUC	CR	Fe	Fe	
					Oil	79.0	2.0	2.95	NIFF-H	SR	GN	GN	
E-TEC I 1.8L X18XE1	1,796	Corsa 1.8 Evolution	SWG10035ZZ	4	1st	80.5	1.2	3.1	BF	SR	GN	GN	93332835
					2nd	80.5	1.2	3.0	T1	CR	Fe	Fe	
					Oil	80.5	2.0	3.0	NIFF-H	SR	Cr	Fe	
ECOTEC LUW	1,796	Astra Cruze Sonic	SWG10056ZZ	4	1st	80.5	1.2	3.1	BF	SR	GN	GN	55568927 95507585
					2nd	80.5	1.2	3.2	TUC	CR	Fe	Fe	
					Oil	80.5	2.0	2.75	NIFF-H	SR	GN	GN	
SATURN I4 LLO SATURN I4 LKO	1,901	SC SC1 SC2	SWG10020ZX	4	1st	82.0	1.5	3.05	BF	SR	Cr	Fe	21006715 21006721
					2nd	82.0	1.5	3.5	TUC	CR	Fe	Fe	
					Oil	82.0	3.0	3.2	NIFF-S	SR	Cr	Fe	
SATURN I4 L24 SATURN I4 LLO	1,901	SI SC1 SC2	SWG10021ZY	4	1st	82.0	1.2	2.85	BF	SR	Cr	Fe	21007180
					2nd	82.0	1.5	3.5	TUC	CR	Fe	Fe	
					Oil	82.0	3.0	3.2	NIFF-S	SR	Cr	Fe	
ECOTEC LSJ	1,998	Cobalt G5 Alero	SWG10019ZY	4	1st	86.0	1.2	2.9	BF	SR	GN	GN	21018813
					2nd	86.0	1.5	3.5	TUC	CR	Fe	Fe	
					Oil	86.0	2.5	2.85	NIFF-S	SR	Cr	Fe	
ECOTEC 2.2 L61 ECOTEC 2.2 LAP	2,196												
ELLESMERE L81	2,962	Catera L300 LS2	SWG10016ZZ	V6	1st	86.0	1.2	2.9	BF	SR	GN	GN	9118853
					2nd	86.0	1.5	3.5	TUC	CR	Fe	Fe	
					Oil	86.0	3.0	3.05	NIFF-S	SR	GN	GN	
CID 121 GM 122 2.0L	1,983 1,999	Sunbird Skyhawk	SWG10010ZZ	4	1st	86.0	1.5	3.3	BF	SR	GN	GN	52273305 52273308
					2nd	86.0	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	86.0	3.0	3.05	NIFF-S	SR	GN	GN	
ECOTEC LNF	1,998	Chevrolet Captexiva Sports	SWG10032ZX	4	1st	86.0	1.2	3.1	BF	SR	GN	GN	89018107
					2nd	86.0	1.5	3.5	TUC	CR	Fe	Fe	
					Oil	86.0	2.0	2.75	NIFF-H	SR	GN	GN	
Northstar L47	3,995	Aurora	SWG10015ZY	V8	1st	87.0	1.2	2.9	BF	SR	Cr	Fe	12555219
					2nd	87.0	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	87.0	3.0	2.85	NIFF-S	SR	Cr	Fe	
ECOTEC 2.4L	2,384	Equinox LaCrosse Regal	SWG10048ZZ	4	1st	88.0	1.2	2.9	BF-IB	SR	GN	GN	12659419
					2nd	88.0	1.5	4.0	TUC	CR	Cr	Fe	
					Oil	88.0	2.0	2.45	NIFF-H	SR	Cr	Fe	
ECOTEC 2.5L	2,457	HHR Maribu Verano Impala Hybrid Regal Hybrid Terrain											

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
GM 60°L82 GM 60°LG8	3,136	Lumina Monte Carlo Century	SWG10004ZZ	V6	1st	89.0	1.2	3.5	BF	SR	GN	GN	12538683 12481987
					2nd	89.0	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	89.0	3.0	2.85	NIFF-S	SR	GN	GN	
GM 60°LE2	2,835	Citation II S-15 Jimmy S-15 Pickup	SWL03235ZX	V6	1st	89.0	1.5	3.25	BF-IB	SR	Cr	Fe	14034969
					2nd	89.0	2.0	4.05	T1	CR	Fe	Fe	
					Oil	89.0	4.76	3.85	NIFF-S	SR	Cr	Fe	
ALLOYTEC 3.2	3,195	Winstorm Winstorm MaXX Captiva Captiva MaXX Antara Escudo	SWG10044ZZ	V6	1st	89.0	1.2	3.1	BF-IB	SR	GN	GN	92068446
					2nd	89.0	1.5	3.25	TUC	CR	Fe	Fe	
					Oil	89.0	2.5	2.85	NIFF-S	SR	GN	GN	
QUAD-4 LD9	2,392	Caballier Grand AM Malibu	SWG10022ZX	4	1st	90.0	1.2	3.3	BF	SR	GN	GN	24575965
					2nd	90.0	1.5	3.8	T1-RB	CR	Fe	Fe	
					Oil	90.0	3.0	3.25	NIFF-S	SR	Cr	Fe	
QUAD-4 LG0	2,254	Achieva Skylark Grand AM	SWG10014ZZ	4	1st	92.0	1.5	3.3	BF	SR	GN	GN	22548439
					2nd	92.0	1.5	3.7	T1-RB	CR	Fe	Fe	
					Oil	92.0	3.0	3.05	NIFF-S	SR	GN	GN	
GM 60°LA1	3,392	Montana Alero Grand AM	SWG10001ZZ	V6	1st	92.0	1.2	3.3	BF	SR	Cr	Fe	12537866
					2nd	92.0	1.5	3.7	T1	CR	Fe	Fe	
					Oil	92.0	4.0	3.65	NIFF-S	SR	Cr	Fe	
GM 60°LA1	3,392	Alero Aztek Grand AM	SWG10009ZZ	V6	1st	92.0	1.2	3.3	BF	SR	GN	GN	12481322
					2nd	92.0	1.5	3.8	T1-RB	CR	Fe	Fe	
					Oil	92.0	3.0	2.55	NIFF-S	SR	GN	GN	
GM 60°LHJ	3,350												
NORTHSTAR L37	4,605	Allante Deville Eldorado	SWG10008ZZ	V8	1st	93.0	1.5	3.3	BF	SR	GN	GN	3543903
					2nd	93.0	1.5	3.9	TUC	CR	Fe	Fe	
					Oil	93.0	3.0	2.85	NIFF-S	SR	GN	GN	
NORTHSTAR L37	4,605	Deville Eldorado Seville	SWG10013ZZ	V8	1st	93.0	1.2	3.5	BF	SR	GN	GN	89017431 12555217
					2nd	93.0	1.5	3.9	TUC	CR	Fe	Fe	
					Oil	93.0	3.0	2.85	NIFF-S	SR	GN	GN	
CADILLAC V8 LD8 NORTHSTAR LD8 NORTHSTAR LH2 NORTHSTAR L37	4,605	Deville Eldorado Seville	SWG10011ZZ	V8	1st	93.03	1.2	3.5	BF	SR	GN	GN	89017413 12564801
					2nd	93.03	1.5	3.9	TUC	CR	Fe	Fe	
					Oil	93.03	2.5	2.6	NIFF-S	SR	GN	GN	
POWER TECH4.7	4,703												
BUICK 3300	3,343	Cutlass Ciera Cutlass Cruiser	SWG10012ZZ	V6	1st	94.0	1.5	3.5	BF	SR	GN	GN	24501330 24501065
					2nd	94.0	1.5	3.7	T1-RB	CR	Fe	Fe	
					Oil	94.0	3.0	3.2	NIFF-S	SR	GN	GN	
HIGH VALUE LX9	3,498	G6 Malibu Montana Relay Rendezvous	SWG10038ZX	V6	1st	94.0	1.2	3.3	BF	SR	GN	GN	12584525
					2nd	94.0	1.5	3.7	T1-RB	CR	Fe	Fe	
					Oil	94.0	2.5	2.7	NIFF-H	SR	Cr	Fe	

DAIHATSU
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HONDA
ISUZU
KOMATSU
MAZDA
MITSUBISHI
NISSAN
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HYUNDAI
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- HONDA
- ISUZU
- KOMATSU
- MAZDA
- MITSUBISHI
- NISSAN
- UD TRUCKS
- SUZUKI
- TOYOTA
- DAEWOO
- HYUNDAI
- KIA
- CHINA
- ASIA
- CHRYSLER
- FORD
- GM
- EUROPE

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
ALLOYTEC LY7	3,564	Chevrolet Captexiva Sports	SWG10039ZZ	V6	1st	94.0	1.2	2.9	BF-IB	SR	GN	GN	12608615
					2nd	94.0	1.5	3.4	TUC	CR	Fe	Fe	
					Oil	94.0	2.5	2.5	NIFF-H	SR	Cr	Fe	
LLT LLE	3,564	Camaro Acadia CTS	SWG10052ZZ	V6	1st	94.0	1.2	3.3	BF	SR	GN	GN	12616973
					2nd	94.0	1.5	3.4	TUC	CR	Fe	Fe	
					Oil	94.0	2.5	2.5	NIFF-H	SR	Cr	Fe	
VORTEC 3700 LLR ATLAS LLR	3,653	Canyon Colorado H3	SWG10036ZZ	5	1st	95.5	1.2	3.3	BF	SR	GN	GN	89018219
					2nd	95.5	1.5	3.7	TUC	CR	Fe	Fe	
					Oil	95.5	2.5	2.85	NIFF-S	SR	Cr	Fe	
VORTEC 2900 LLV	2,921	Canyon Colorado	SWG10037ZZ	4	1st	95.5	1.2	3.3	BF	SR	GN	GN	89018219
					2nd	95.5	1.5	3.7	TUC	CR	Fe	Fe	
					Oil	95.5	2.5	2.85	NIFF-S	SR	Cr	Fe	
ECOTEC3 L83	5,328	Express G1500 Sierra 1500 Sierra 1500 Denali Silverado 1500 Suburban Tahoe Yukon Yukon XL	SWG10059ZZ	V8	1st	96.0	1.2	3.3	BF	SR	GN	GN	12663865
					2nd	96.0	1.5	3.7	TUC	CR	Fe	Fe	
					Oil	96.0	2.5	2.95	NIFF-H	SR	Cr	Fe	
VORTEC 4800 LR4 VORTEC 4800 LY2 VORTEC 5300 III VORTEC 5300 IV VORTEC 5300 LH6 VORTEC 5300 LH8 VORTEC 5300 LM7 VORTEC 5300 LS4	4,818	Savana	SWG10005ZZ	V8	1st	96.01	1.5	3.3	BF	SR	GN	GN	12456338
	5,328	Express			2nd	96.01	1.5	4.0	TUC	CR	Fe	Fe	
		Sierra 1500			Oil	96.01	3.0	3.2	NIFF-S	SR	GN	GN	
BUICK V6 L27 BUICK V6 L67	3,785	Ninety Eight	SWG10006ZZ	V6	1st	96.5	1.2	3.5	BF	SR	GN	GN	24502947
	3,791	Eighty Eight			2nd	96.5	1.5	3.8	T1-RB	CR	Fe	Fe	
		Bonneville			Oil	96.5	3.0	2.85	NIFF-S	SR	GN	GN	
OLDSMOBILE V8 307	5,031	Caprice Cutlass Delta 88 Electra Ninety Eight	SWG10023ZY	V8	1st	96.5	2.0	3.5	BF	SR	GN	GN	22529562
					2nd	96.5	2.0	4.4	T1-RB	CR	Fe	Fe	
					Oil	96.5	4.76	4.05	NIFF-S	SR	Cr	Fe	
BUICK V6 L26 BUICK V6 L36	3,785	LSS	SWG10003ZZ	V6	1st	96.52	1.2	3.5	BF	SR	GN	GN	12480825 12537410
	3,791	Bonneville			2nd	96.52	1.5	3.8	T1-RB	CR	Fe	Fe	
		Park avenue			Oil	96.52	2.0	2.8	NIFF-H	SR	GN	GN	
HI VALUE LZE	3,510	Monte Carlo Malibu Pontiac G6	SWG10049ZZ	V6	1st	99.0	1.2	3.3	BF	SR	GN	GN	89018067 89018068
					2nd	99.0	1.5	3.75	TUC	CR	Fe	Fe	
					Oil	99.0	2.5	2.85	NIFF-S	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
VORTEC 5700 LS1 VORTEC 5700 LS6	5,670	Corvette GTO Camaro	SWG10018ZZ	V8	1st	99.0	1.5	3.5	BF	SR	GN	GN	12533556
					2nd	99.0	1.5	4.1	TUC	CR	Fe	Fe	88894247
					Oil	99.0	3.0	3.2	NIFF-S	SR	GN	GN	88894299
ECOTEC3 LV3	4,301	Cutaway Express Savana Sierra Silverado	SWG10062ZZ	V6	1st	99.6	1.2	3.55	BF	SR	GN	GN	12656882
					2nd	99.6	1.5	3.9	TUC	CR	Fe	Fe	12685186
					Oil	99.6	2.5	2.9	NIFF-S	SR	GN	GN	
VORTEC 6000	5,967	Chevrolet Avalanch	SWG10031ZX	V8	1st	101.6	1.2	3.5	BF	SR	GN	GN	89017484
					2nd	101.6	1.5	4.2	TUC	CR	Fe	Fe	
					Oil	101.6	2.5	2.55	NIFF-H	SR	Cr	Fe	
VORTEC 6200	6,162	Chevrolet Corvette Pontiac GTO Cadillac CTS	SWG10050ZZ	V8	1st	103.25	1.5	3.5	BF	SR	GN	GN	19168090
					2nd	103.25	1.5	4.7	TUC	CR	Fe	Fe	
					Oil	103.25	2.5	2.85	NIFF-H	SR	Cr	Fe	
ECOTEC3 L86	6,162	Escalade Escarade EXT Sierra 1500 Silverado 1500 Suburban Tahoe Yukon Yukon XL Yukon Denali	SWG10060ZZ	V8	1st	103.25	1.2	3.5	BF	SR	GN	GN	12663867
					2nd	103.25	1.5	4.7	TUC	CR	Fe	Fe	12685185
					Oil	103.25	2.5	2.85	NIFF-H	SR	Cr	Fe	

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Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
XLD28 DURAMAX L4	2,776	Chevrolet Colorado	SDG10067ZZ (TCC-S-0879)	4	1st	94.0	1.95	3.5	BF-K2	SR	GN	GN	24585029
					2nd	94.0	1.5	4.0	TUC	SR	GN	GN	
					Oil	94.0	2.0	2.74	E-BC16	SR	GN	GN	
GM 6.5	6,473	C3500 HD Chery Van Cutaway	SDG10024ZX	V8	1st	103.0	2.8	3.7	BF-K1HB	SR	GN	GN	12369198
					2nd	103.0	2.0	4.1	T1-IB	CR	Fe	Fe	
					Oil	103.0	4.0	4.15	E-BC16	SR	GN	GN	
DURAMAX L5P	6,599	Silverado HD GMC Sierra HD Sierra 2500HD Sierra 3500 Silverado 2500HD Silverado 3500HD Silverado 4500HD Silverado 5500HD Silverado 6500HD	SDI10183ZZ	V8	1st	103.0	2.948	3.95	BF-K1	SR	PC	GN	12686801
					2nd	103.0	2.0	4.4	T1-IC	CR	Cr	Fe	8-97386-951-0
					Oil	103.0	3.0	3.0	E-BC16	SR	GN	GN	

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Fit for BMW

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
PRICE EP6 N12B16A N13B16A N14B16A	1,598	114i	SWB01003ZZ (TCC-Q-0779)	4	1st	77.0	1.2	2.9	BF	SR	GN	GN	11 25 7 566 479
		116i			2nd	77.0	1.5	3.0	TUC	CR	Fe	Fe	
		118i			Oil	77.0	2.0	2.55	NIFF-H	SR	Cr	Fe	
		316i											
		320i											
M40B18E	1,796	318i	SWB01004ZZ	4	1st	84.0	1.2	3.1	BF	SR	GN	GN	11 25 7 594 453
		318ic			2nd	84.0	1.5	3.15	TUC	CR	Fe	Fe	
		318ti			Oil	84.0	2.0	2.55	NIFF-H	SR	GN	GN	

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Fit for BENZ

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
M160 E06	599	Smart Fortwo Crossblade	SWD06018ZZ	3	1st	63.5	1.2	2.3	BF	SR	GN	GN	80 00372 1 0 000
					2nd	63.5	1.5	2.3	T1	SR	GN	GN	
					Oil	63.5	2.5	2.5	NIFF-S	SR	GN	GN	

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Fit for BENZ

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
OM642	2,987	Sprinter NCV3	TCC-S-0896	6	1st	83.0	1.92		BF-K1-IB	SR	PC	GN	642-030-00-24
					2nd	83.0	2.0		T1-RB	CR	Fe	Fe	
					Oil	83.0	2.0		E-BC16	SR	GN	GN	

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Fit for FIAT

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
FIRE 1.4	1,368	Punto Panda Bravo Spider	SDL04119ZZ (TCC-J-0070)	4	1st	72.0	1.2	2.7	BF-1B	SR	GN	GN	68149737AB
					2nd	72.0	1.2	2.9	TUC	CR	Fe	Fe	
					Oil	72.0	2.0	2.75	E-BC16	SR	GN	GN	

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Fit for FIAT

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
199B1.000	1,248	500 Panda Punto Ypsilon	SDL04120ZZ (TCC-R-0845)	4	1st	69.6	1.5	2.5	BF	SR	GN	GN	71749353
					2nd	69.6	1.5	2.7	T1	CR	Fe	Fe	
					Oil	69.6	2.0	2.75	E-BC16	SR	GN	GN	
F1AE0481C	2,287	Ducato	TCC-R-0846	4	1st	88.0	2.4		BF-K1	SR	GN	GN	2992540
					2nd	88.0	2.0		T1	SR	GN	GN	
					Oil	88.0	2.5		E-BC16	SR	GN	GN	
4P10	2,998	Truck	TCC-R-0847	4	1st	95.8	2.35	3.5	BF-K1	SR	GN	GN	2996623
					2nd	95.8	2.0	4.0	T1	HB	Fe	Fe	
					Oil	95.8	2.5	2.85	E-BC16	SR	GN	GN	

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Fit for OPEL

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
C14 X14 C14NZ	1,388	Vita	TCC-R-0824	4	1st	77.6	1.5		BF	SR	GN	GN	630095
					2nd	77.6	1.5		TUC	CR	Fe	Fe	90324689
					Oil	77.6	3.0		NIFF-H	SR	Cr	Fe	93227616

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Fit for PEUGEOT

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
TU3 JP	1,360	106	SWL04099ZZ (TCC-Q-0791)	4	1st	75.0	1.5	2.7	BF	SR	GN	GN	030 198 151
		206			2nd	75.0	1.5	3.2	TUC	CR	Fe	Fe	
		306			Oil	75.0	2.5	2.7	NIFF-H	SR	Cr	Fe	
		307											
		Partner1.4i											
5FG 5FK 5FU	1,598	Peugeot Partner	SWB01003ZZ (TCC-R-0839)	4	1st	77.0	1.2	2.9	BF	SR	GN	GN	11 25 7 566 479
		Citroen Berlingo			2nd	77.0	1.5	3.0	TUC	CR	Fe	Fe	
					Oil	77.0	2.0	2.55	NIFF-H	SR	Cr	Fe	
TU5 JP4 NFU NFX	1,587	106	SWL04101ZZ (TCC-Q-0809)	4	1st	78.5	1.2	2.9	BF	SR	GN	GN	0640-R5
		206			2nd	78.5	1.5	3.3	TUC	CR	Fe	Fe	
		307			Oil	78.5	2.5	2.8	NIFF-H	SR	GN	GN	
		Partner											
		Saxo											
		Xsara											
		Berlingo											
		C3											

● Diesel-engine Automobiles ● ディーゼル車 ●

Fit for PEUGEOT

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
DV4TD	1,399	107	SDL04125ZZ (TCC-H-0028)	4	1st	73.7	2.43	3.05	BF-K1	HB	Cr	Fe	0640.V9
		2nd			73.7	2.0	3.05	T1-RB	CR	Fe	Fe		
		Oil			73.7	2.5	2.85	E-BC16	SR	GN	GN		
DV6TED4	1,560	206	SDL04118ZZ (TCC-H-0026)	4	1st	75.0	2.92	2.85	BF-K1	HB	Cr	Fe	0640.S7
		2nd			75.0	2.0	3.0	TUC	CR	Fe	Fe		
		Oil			75.0	2.5	2.85	E-BC16	SR	GN	GN		

● Gasoline-engine Automobiles ● ガソリン車 ●

Fit for RENAULT

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
D4D D4F D7F	999	Twingo	SWL04123ZZ (TCC-S-0878)	4	1st	69.0	1.2	2.5	BF	SR	GN	GN	7701472982
		Clio			2nd	69.0	1.5	2.9	T1-RB	CR	Fe	Fe	
	1,149	Kangoo			Oil	69.0	2.5	2.85	NIFF-H	SR	Cr	Fe	
K7J K4J K4M	1,389	Clio 1.4	SWL04093ZZ (TCC-Q-0792)	4	1st	79.5	1.2	3.1	BF	SR	GN	GN	77 01 471 283
		Megane			2nd	79.5	1.5	3.3	TUC	CR	Fe	Fe	
		Kangoo			Oil	79.5	2.5	2.8	NIFF-S	SR	Cr	Fe	
K7M	1,598	Scenic 1.6	SWL04078ZZ	4	1st	79.5	1.5	3.1	BF	SR	GN	GN	77 01 474 857
		Megane			2nd	79.5	1.5	3.3	TUC	CR	Fe	Fe	
		Kangoo			Oil	79.5	2.5	2.8	NIFF-S	SR	Cr	Fe	
F4R770 F4R771	1,998	Megane II 2.0 16V	SWL04094ZZ (TCC-Q-0800)	4	1st	82.7	1.2	3.1	BF-IB	SR	GN	GN	77 01 474 725
		Scenic II 2.0 16V			2nd	82.7	1.5	3.5	TUC	CR	Fe	Fe	
					Oil	82.7	2.0	3.05	NIFF-H	SR	Cr	Fe	
M4R	1,997	Megane 2.0	TCC-S-0890	4	1st	84.0	1.2		BF	SR	GN	GN	12033-8690R
					2nd	84.0	1.2		TUC	CR	Cr	Fe	
					Oil	84.0	2.0		NIFF-H	SR	GN	GN	

● Diesel-engine Automobiles ● ディーゼル車 ●

Fit for RENAULT

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
R9M	1,598	Megane 1.6	TCC-S-0888	4	1st	80.0	1.92		BF-K2	SR	GN	GN	12033-0817R
					2nd	80.0	1.75		T1-RB	CR	Fe	Fe	
					Oil	80.0	2.0		E-BC16	SR	GN	GN	
M9R	1,995	Koleos	TCC-S-0889	4	1st	84.0	2.42		BF-K2	SR	GN	GN	7701476733
					2nd	84.0	2.0		T1-RB	CR	Fe	Fe	
					Oil	84.0	2.0		E-BC16	SR	GN	GN	

● Gasoline-engine Automobiles ● ガソリン車 ●

Fit for VOLVO

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
B4184S B4204S B4204T3	1,783	S40	SWL04096ZZ (TCC-Q-0778)	4	1st	83.0	1.2	2.9	BF	SR	GN	GN	30731512
	1,948	V40			2nd	83.0	1.5	3.45	TUC	CR	Fe	Fe	
					Oil	83.0	2.5	2.8	NIFF-H	SR	GN	GN	

● Gasoline-engine Automobiles ● ガソリン車 ●

Fit for VOLKS WAGEN

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
AAU AEV 3F AAL ABD	1,043	Polo	SWL04099ZZ (TCC-Q-0791)	4	1st	75.0	1.5	2.7	BF	SR	GN	GN	030 198 151 B
	1,272	Golf III			2nd	75.0	1.5	3.2	TUC	CR	Fe	Fe	
	1,391	Vento			Oil	75.0	2.5	2.7	NIFF-H	SR	Cr	Fe	
CFNA BCA BKR BKY BAG BLF BTS	1,391	Bora1.4i	SWL04097ZZ (TCC-Q-0793)	4	1st	76.5	1.2	2.9	BF-IB	SR	GN	GN	03C 198 151 A
		Golf IV			2nd	76.5	1.2	2.95	T1	CR	Fe	Fe	
		New Beetle 1.4i 16V			Oil	76.5	2.0	2.5	NIFF-H	SR	GN	GN	
ADX AEA AEE	1,298	Polo	SWF13004ZZ (TCC-S-0868)	4	1st	76.5	1.2	2.65	BF-IB	SR	Cr	Fe	
		Golf			2nd	76.5	1.5	3.1	TUH	CR	Fe	Fe	
					Oil	76.5	2.5	2.8	NIFF-H	SR	GN	GN	
EE EF EJ FN YN FR EN ZV WN WE		Jetta	SWF13005ZZ (TCC-Q-0796)	4	1st	79.5	1.75	3.3	BF	SR	GN	GN	049 198 151 A
		Scirocco			2nd	79.5	2.0	3.3	TUH	CR	Fe	Fe	
		Golf			Oil	79.5	4.0	3.9	NIFF-S	SR	Cr	Fe	
		Rabbit											
ADP AEH AEK AFT AHL AKL ARM	1,595	Golf	SWL04102ZZ (TCC-Q-0810)	4	1st	81.0	1.2	2.9	BF	SR	GN	GN	06B 198 151
		Passat			2nd	81.0	1.5	3.4	TUC	CR	Fe	Fe	
		Bora			Oil	81.0	2.0	3.05	NIFF-H	SR	GN	GN	
AAN	2,226	Audi S4	SDF13001ZZ (TCC-R-0827)	5	1st	81.0	1.5	3.1	BF	SR	GN	GN	026 198 151 A
		Audi S6			2nd	81.0	1.75	3.35	TUH	CR	Fe	Fe	
					Oil	81.0	3.0	3.25	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
AGU AUM AEB AUG	1,780	Golf 4 Audi A3	TCC-R-0828	4	1st 2nd Oil	81.0 81.0 81.0	1.5 1.75 2.0		BF TUC E-BC16	SR CR SR	GN Fe GN	GN Fe GN	058 198 151 B
CBTA CBUA CCCA BGP BGQ BTK	2,480	Beetle Golf Jetta Passat	SWL04100ZZ (TCC-Q-0797)	5	1st 2nd Oil	82.5 82.5 82.5	1.2 1.5 2.0	2.9 3.0 3.1	BF T1 NIFF-H	SR CR SR	GN Fe GN	GN Fe GN	06D 198 151 C
CDA VAG	1,798	Passat Variant	SDL04095ZZ (TCC-Q-0798)	4	1st 2nd Oil	82.5 82.5 82.5	1.2 1.2 2.0	3.1 3.1 2.75	BF-IB TUC E-BC16	SR SR SR	GN Fe GN	GN Fe GN	06H 198 151 F
ACK ALG AMX APR AQD	2,771	Passat Santana	TCC-Q-0799	V6	1st 2nd Oil	82.5 82.5 82.5	1.2 1.5 2.0		BF-IB TUC E-BC16	SR CR SR	GN Fe GN	GN Fe GN	06J 198 151 B
BLY BLR BVY BVZ	1,984	Golf Jetta Passat Touran	SWL04104ZZ (TCC-Q-0802)	4	1st 2nd Oil	82.5 82.5 82.5	1.2 1.5 2.0	2.9 3.45 2.8	BF T1-IB NIFF-H	SR CR SR	GN Fe GN	GN Fe GN	06D 198 151 C
AKR ADY ABA AEG	1,984	Passat Variant	TCC-R-0832	4	1st 2nd Oil	82.5 82.5 82.5	1.2 1.5 2.0		BF T1-IC E-BC16	SR CR SR	GN Fe GN	GN Fe GN	053 198 151 C
311 AE AH	1,584	Beetle Type1	SWF13003ZZ (TCC-S-0869)	H4	1st 2nd Oil	85.5 85.5 85.5	2.0 2.0 5.0	3.3 4.0 3.85	BF TUC NIFF-S	SR CR SR	GN Fe Cr	GN Fe Fe	311198169 311198169A 311198269

● Diesel-engine Automobiles ● ディーゼル車 ●

Fit for VOLKS WAGEN

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
AHU AUY KY LX	1,896	Audi A3 Bora 1 Golf 4	SDF13002ZZ (TCC-R-0829)	4	1st 2nd Oil	79.5 79.5 79.5	1.75 2.0 3.0	2.9 3.3 3.25	BF T1-RB E-BC16	SR CR SR	GN Fe GN	GN Fe GN	038 198 151
AZV BDJ BDK BKD BMM BMN BST AAC AAF ACU	1,968	Golf Caddy Jetta Touran T4 T4Syncro	SDL04092ZZ (TCC-Q-0777)	4	1st 2nd Oil	81.0 81.0 81.0	1.75 2.0 3.0	2.9 3.4 3.25	BF T1-RB E-BC16	SR CR SR	GN Cr GN	GN Fe GN	03L 198 151 C

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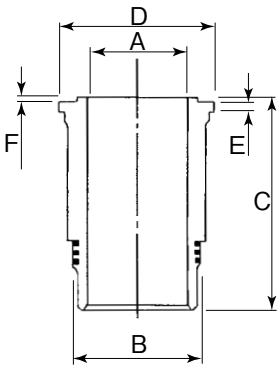
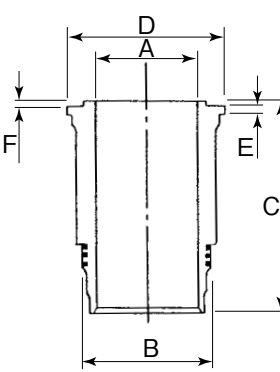
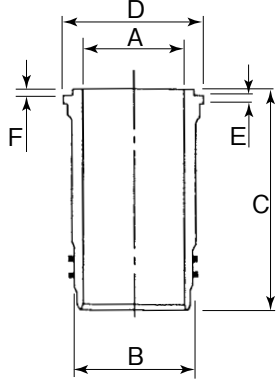
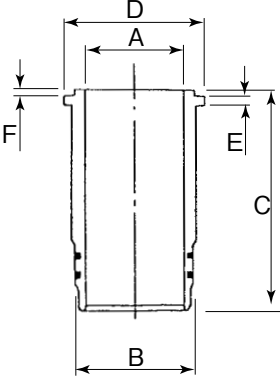
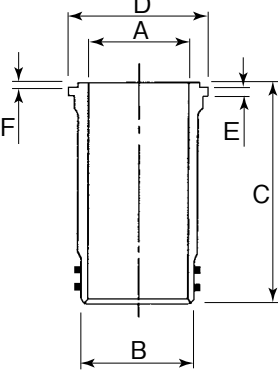
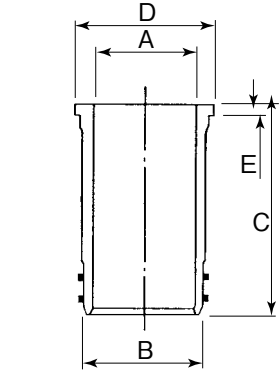
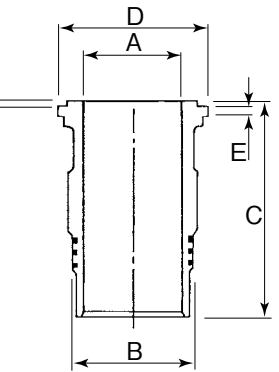
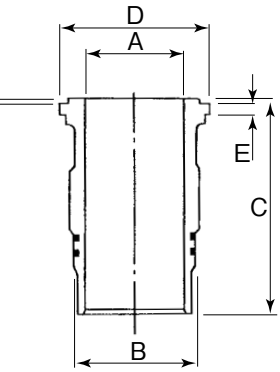
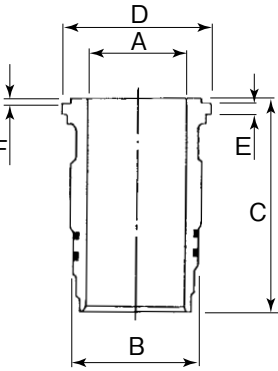
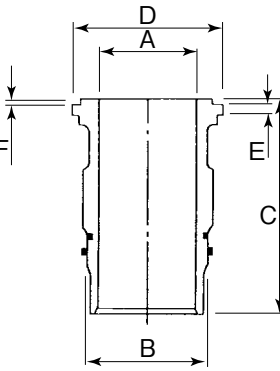
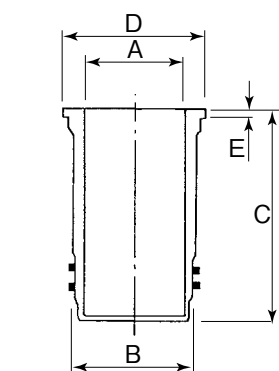
TOYOTA

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D01	D02	D03	D04
D05			
W01	W02	W03	W04
W05	W06	W07	W08

W09	W10	W11	W12
			
W13	W14	W15	W16
			
W17	W18	W19	
			

Surface Treatment

DC..... Water jacket only is chromium plated
 F..... Phosphated (all over)
 CF..... Outside chromium plated + phosphated
 CM..... Inside chromium plated
 NF..... Nitrided + Phosphated
 NON... Without any surface treatment

ライナ表面処理

DC..... 外周 W/J 部のみクロムメッキ
 F..... 磷酸塩被膜処理
 CF..... 外周クロム + 磷酸塩皮膜処理
 CM..... 内周クロム
 NF..... 窒化 + 磷酸塩皮膜処理
 NON... 表面処理なし

The world standard cylinder liners



NIPPON PISTON RING CO.,LTD.

5-12-10, Honmachi-Higashi, Chuo-ku, Saitama City, Saitama, 338-8503 JAPAN

<http://www.npr.co.jp/>

Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code (Old Code)	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
DM100	4,313	4	L12732-CC	90.00	W02	NON	F		104.50	198.50	110.00	9.00	11467-1330, -1401, -1440
EC100	5,010	4	L15137-BA	97.00	W02	NON	F		110.50	206.00	117.00	10.00	11467-1130
W04D W06D W06E N04C	5,759	4, 6	L16188ZDA (L16188DFA)	104.00	D02	F	F	A	107.00	200.00	112.00	8.00	11467-1762A, 11461-78021
			L16188ZEA (L16188DGA)	104.00	D02	F	F	B	107.00	200.00	112.00	8.00	11467-1772A, 11461-78031
			L16188ZFA (L16188DHA)	104.00	D02	F	F	C	107.00	200.00	112.00	8.00	11467-1792A, 11461-78051
			L16188CTA	104.00	D03	F	F	W	107.00	201.00	112.00	8.00	11467-1761A
			L16188CUA	104.00	D03	F	F	X	107.00	201.00	112.00	8.00	11467-1771A
			L16188CVA	104.00	D03	F	F	Y	107.00	201.00	112.00	8.00	11467-1781A
			L16188CWA	104.00	D03	F	F	Z	107.00	201.00	112.00	8.00	11467-1791A
N04C	5,759	4, 6	L16188ZAA (L16188EFA)	104.00	D02	F	F	A	107.00	200.00	112.00	3.00	11462-78030
			L16188ZBA (L16188EGA)	104.00	D02	F	F	B	107.00	200.00	112.00	3.00	11463-78030
			L16188ZCA (L16188EHA)	104.00	D02	F	F	C	107.00	200.00	112.00	3.00	11464-78030
EH100	5,871	6	L16048ZAA (L16048-BE)	105.00	D03	NON	F		110.00	206.00	115.00	8.00	11461-1060A
H06BTI H06BT	6,224	6	L16163ZEA (L16163BZA)	105.80	D03	NF	F	W	110.00	204.00	118.00	8.00	11467-2740A, 11467-1921A
			L16163ZFA (L16163CAB)	105.80	D03	NF	F	X	110.00	204.00	118.00	8.00	11467-2750A, 11467-1931A
			L16163ZGA (L16163CBA)	105.80	D03	NF	F	Y	110.00	204.00	118.00	8.00	11467-2760A, 11467-1941A
			L16163ZHA (L16163CCA)	105.80	D03	NF	F	Z	110.00	204.00	118.00	8.00	11467-2770A, 11467-1951A
EH300	6,211	6	L16071ZAA (L16071-ZA)	108.00	D03	NON	F	AA	112.00	204.00	118.00	8.00	11467-1010A
			L16071ZBA (L16071AAA)	108.00	D03	NON	F	BB	112.00	204.00	118.00	8.00	11467-1020B
EH700 H07CT	6,443	6	L16100ZAA (L16100AJA)	110.00	D03	F	F	W	113.00	204.00	118.00	8.00	11467-1200, -1201, -1202
			L16100ZBA (L16100AKA)	110.00	D03	F	F	X	113.00	204.00	118.00	8.00	11467-1210, -1211, -1212
			L16100ZCA (L16100ALA)	110.00	D03	F	F	Y	113.00	204.00	118.00	8.00	11467-1220, -1221, -1222
			L16100ZDA (L16100AMA)	110.00	D03	F	F	Z	113.00	204.00	118.00	8.00	11467-1230, -1231, -1232

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MAZDA

KIA

- HINO
- ISUZU
- KOMATSU
- DAEWOO
- UD TRUCKS
- TOYOTA
- MAZDA
- KIA

Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code (Old Code)	Bore/ A	Type	Sur- face	Finish/ Semi	Size (mm)					Reference
								Grade	B	C	D	E	
EH500 H06CT	6,485	6	L16163ZAA (L16163BMA)	108.00	D03	F	F	W	113.00	204.00	118.00	8.00	11467-1592A
			L16163ZBA (L16163BNA)	108.00	D03	F	F	X	113.00	204.00	118.00	8.00	11467-1602A
			L16163ZCA (L16163BPA)	108.00	D03	F	F	Y	113.00	204.00	118.00	8.00	11467-1612A
			L16163ZDA (L16163BQA)	108.00	D03	F	F	Z	113.00	204.00	118.00	8.00	11467-1622A
H07BTi	6,224	6	L16567ZAA (L16567-DA)	105.80	D03	F	F	W	113.00	203.00	118.00	8.00	11467-2900A
			L16567ZBA (L16567-EA)	105.80	D03	F	F	X	113.00	203.00	118.00	8.00	11467-2910A
			L16567ZCA (L16567-FA)	105.80	D03	F	F	Y	113.00	203.00	118.00	8.00	11467-2920A
			L16567ZDA (L16567-GA)	105.80	D03	F	F	Z	113.00	203.00	118.00	8.00	11467-2930A
H08C J08 J05C	7,961	4, 6	L16521ZAA (L16521EKA)	114.00	D02	F	F	A	117.00	203.00	122.00	3.00	11462-E0090
			L16521ZBA (L16521ELA)	114.00	D02	F	F	B	117.00	203.00	122.00	3.00	11463-E0060
			L16521ZCA (L16521EMA)	114.00	D02	F	F	C	117.00	203.00	122.00	3.00	11464-E0060
			L16521ZDA (L16521ECA)	114.00	D02	F	F	A	117.00	203.00	122.00	8.00	11467-2601B
			L16521ZEA (L16521EDA)	114.00	D02	F	F	B	117.00	203.00	122.00	8.00	11467-2611B/11467-2790
			L16521ZFA (L16521EEA)	114.00	D02	F	F	C	117.00	203.00	122.00	8.00	11467-2621B
			L16521ZGA (L16521DZA)	114.00	D03	F	F	A	117.00	204.00	122.00	8.00	11467-2601A
			L16521ZHA (L16521EAA)	114.00	D03	F	F	B	117.00	204.00	122.00	8.00	11467-2611A
			L16521ZJA (L16521EBA)	114.00	D03	F	F	C	117.00	204.00	122.00	8.00	11467-2621A
YJ75 S05D			L16568ZAA (L16568-YB)	114.00	D02	F	F	A	117.00	186.50	122.00	8.00	11467-2941A, 11461-78090
			L16568ZBA (L16568-ZB)	114.00	D02	F	F	B	117.00	186.50	122.00	8.00	11467-2951A, 11461-78100
			L16568ZCA (L16568AAB)	114.00	D02	F	F	C	117.00	186.50	122.00	8.00	11467-2961A, 11461-78110
J05D		4	L16568ZDA (L16568ADB)	112.00	D02	F	F	A	117.00	186.50	122.00	8.00	11467-3170, S1146-73170
			L16568ZEA (L16568AEB)	112.00	D02	F	F	B	117.00	186.50	122.00	8.00	11467-3180, S1146-73180
			L16568ZFA (L16568AFB)	112.00	D02	F	F	C	117.00	186.50	122.00	8.00	11467-3190, S1146-73190

Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code (Old Code)	Bore/ A	Type	Surface	Finish/ Semi	Size (mm)					Reference
								Grade	B	C	D	E	
J08E		6	L16576ZAA (L16576BGA)	112.00	D02	F	F	A	117.00	203.00	122.00	3.00	11462-E0080
			L16576ZBA (L16576BHA)	112.00	D02	F	F	B	117.00	203.00	122.00	3.00	11463-E0050
			L16576ZCA (L16576BJA)	112.00	D02	F	F	C	117.00	203.00	122.00	3.00	11464-E0050
			L16576ZDA (L16576-YB)	112.00	D02	F	F	A	117.00	203.00	122.00	8.00	11467-3200B/S1146-73200
			L16576ZEA (L16576-ZB)	112.00	D02	F	F	B	117.00	203.00	122.00	8.00	11467-3210B/S1146-73210
			L16576ZFA (L16576AAB)	112.00	D02	F	F	C	117.00	203.00	122.00	8.00	11467-3220B/S1146-73220
A09		6	L16603ZAA (L16603-KA)	112.00	D02	F	F	A	117.00	228.00	123.00	3.00	11462-E0010
			L16603ZBA (L16603-LA)	112.00	D02	F	F	B	117.00	228.00	123.00	3.00	11463-E0010
			L16603ZCA (L16603-MA)	112.00	D02	F	F	C	117.00	228.00	123.00	3.00	11464-E0010
P09BTi P09BT			L16227ZAA (L16227ABB)	117.80	D03	NF	F	A	122.80	234.70	132.00	8.00	11467-2100A, 1970A
			L16227ZBA (L16227ACB)	117.80	D03	NF	F	B	122.80	234.70	132.00	8.00	11467-2110A, 1980A
			L16227ZCA (L16227ADB)	117.80	D03	NF	F	C	122.80	234.70	132.00	8.00	11467-2120A, 1990A
P10CTi			L16561ZAA (L16561-LA)	117.80	D03	NF	F	A	122.80	222.80	132.00	8.00	11467-2810A
			L16561ZBA (L16561-MA)	117.80	D03	NF	F	B	122.80	222.80	132.00	8.00	11467-2820A
			L16561ZCA (L16561-NA)	117.80	D03	NF	F	C	122.80	222.80	132.00	8.00	11467-2830A
EP100	8,821	6	L16183ZAA (L16183DSA)	120.00	D03	F	F	A	125.00	236.00	132.00	8.00	11467-1731A
			L16183ZBA (L16183DTA)	120.00	D03	F	F	B	125.00	236.00	132.00	8.00	11467-1741
			L16183ZCA (L16183DUA)	120.00	D03	F	F	C	125.00	236.00	132.00	8.00	11467-1751
P11C	10,520	6	L16715ZAA (L16536BHA)	122.00	D03	F	F	A	127.00	229.00	134.00	8.00	11467-3130A
			L16715ZBA (L16536BJA)	122.00	D03	F	F	B	127.00	229.00	134.00	8.00	11467-3140A
			L16715ZCA (L16536BKA)	122.00	D03	F	F	C	127.00	229.00	134.00	8.00	11467-3150A
P11BTi		6	L16567ZEA (L16567-HA)	121.99	D03	NF	F	A	127.00	229.00	134.00	8.00	11467-3000A
			L16567ZFA (L16567-JA)	121.99	D03	NF	F	B	127.00	229.00	134.00	8.00	11467-3010A
			L16567ZGA (L16567-KA)	121.99	D03	NF	F	C	127.00	229.00	134.00	8.00	11467-3020A
EL100		6	L16081ZAA (L16081-DC)	116.00	W11	NON	F		129.00	222.80	138.00	9.00	11467-1240

HINO

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UD TRUCKS

TOYOTA

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HINO	Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code (Old Code)	Bore/ A	Type	Sur-face	Finish/ Semi	Size (mm)					Reference
									Grade	B	C	D	E	
ISUZU	EM100	9,419	6	L16125ZAA (L16125AJA)	124.00	D03	F	F	A	129.00	236.00	134.00	8.00	11467-1661, -1662
				L16125ZBA (L16125AKA)	124.00	D03	F	F	B	129.00	236.00	134.00	8.00	11467-1671, -1672A
KOMATSU	M10U	9,880	6	L16218ZAA (L16218AEA)	127.00	D03	F	F	A	130.30	236.00	135.20	8.00	11467-2000A
				L16218ZBA (L16218AFA)	127.00	D03	F	F	B	130.30	236.00	135.20	8.00	11467-2010A
				L16218ZCA (L16218AGA)	127.00	D03	F	F	C	130.30	236.00	135.20	8.00	11467-2020A
				L16218ZDA (L16218AHA)	127.00	D03	F	F	D	130.30	236.00	135.20	8.00	11467-2030A
UD TRUCKS	E13C	12,913	6	L16577ZAA (L16577-QB)	137.00	D03	F	F	A	142.00	251.00	149.60	5.00	11462-E0030
				L16577ZBA (L16577-RB)	137.00	D03	F	F	B	142.00	251.00	149.60	5.00	11463-E0030
				L16577ZCA (L16577-SB)	137.00	D03	F	F	C	142.00	251.00	149.60	5.00	11464-E0030
TOYOTA	F20C V25C	19,688 24,610	8, 10	L16512ZAA (L16512BUA)	146.00	D03	F	F	A	152.00	244.60	159.00	8.00	11467-2280B, 2490A
				L16512ZBA (L16512BVA)	146.00	D03	F	F	B	152.00	244.60	159.00	8.00	11467-2290B, 2500A
				L16512ZCA (L16512BWA)	146.00	D03	F	F	C	152.00	244.60	159.00	8.00	11467-2300B, 2510A
MAZDA	EF500		8	L16093ZAA (L16093-BA)	135.00	W11	NON	F		153.00	247.80	165.00	13.62	11467-1101
	EF700 EF750	16,745	8	L16094ZAA (L16094-GB)	137.00	W11	NON	F		153.00	247.80	165.00	12.12	11461-1081C 11467-1091B (11461-1480B) (11467-1900A)
KIA	EF550	16,260	8	L16179ZAA (L16179-BC)	135.00	W11	NON	F		153.00	247.80	165.00	12.12	11467-1690
	EK100 K13D	13,267	6	L16195ZAA (L16195-GB)	137.00	W11	NON	F		153.00	266.80	164.00	12.12	11467-1080, 11467-1650, 11467-1910
	F17D	17,238	8	L16523ZAA (L16523-AC)	137.00	W11	F	F		153.00	248.00	165.00	12.00	11467-2270
	YJ38 K13C	12,882	6	L16542ZAA (L16542-TC)	135.00	W11	F	F		153.00	266.80	164.00	12.08	11467-1960A, 11467-2380B
	F17C	16,745	8	L16706-AA	139.00	W11	F	F		154.00	248.00	166.00	12.00	11467-1702A (w/o outside chromium plating)
	F20CE	19,688	8	L16512ZDA (L16512CAA)	146.00	D03	F	F	D	154.00	244.60	161.00	8.50	11467-2680A
				L16512ZEA (L16512CBA)	146.00	D03	F	F	E	154.00	244.60	161.00	8.50	11467-2690A
				L16512ZFA (L16512CCA)	146.00	D03	F	F	F	154.00	244.60	161.00	8.50	11467-2700A

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Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code (Old Code)	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
C190	1,951	4	L65001-DA	86.00	D04	CM	F		88.00	163.00	94.00	0.82	8-97176-659-0/660-0 8-97176-661-0/662-0 8-97176-663-0/664-0 8-97176-665-0/666-0
C240	2,369	4	L65002-DA	86.00	D04	CM	F		88.00	178.00	94.00	0.82	8-97176-896-0/897-0 8-97176-898-0/899-0 8-97176-900-0/901-0 8-97176-902-0/903-0
C223	2,238	4	L65003-DA	88.00	D04	CM	F		90.00	163.00	95.00	0.82	8-97176-675-0/676-0 8-97176-677-0/678-0 8-97176-679-0/680-0 8-97176-681-0/682-0
4JA1		4	L65004-DA	93.00	D04	CM	F		95.00	156.00	101.00	0.82	8-97176-691-0/692-0 8-97176-693-0/694-0 8-97176-695-0/696-0 8-97176-697-0/698-0
4JB1	2,771	4	L65005-DA	93.00	D04	CM	F		95.00	181.00	101.00	0.82	8-97176-683-0/684-0 8-97176-685-0/686-0 8-97176-687-0/688-0 8-97176-689-0/690-0
4JG2 4JH1 4JH1T	3,059	4	L65013-DA	95.40	D04	CM	F		97.00	178.00	102.42	1.15	8-97176-699-0/700-0 8-97176-701-0/702-0 8-97176-703-0/704-0 8-97176-705-0/706-0
4BA1		4	L65006-DA	98.00	D04	CM	F		101.00	156.00	108.00	1.32	8-97176-904/905 8-97176-906/907 8-97176-908/909 8-97176-910/911
4BC2		4	L66007-DA	102.00	D04	CM	F		105.00	187.00	112.00	1.32	8-97176-707-1/708-1 8-97176-709-1/710-1 8-97176-711-1/712-1 8-97176-713-1/714-1
6BB1 6BD1 6BD1T 4BB1 4BD1 4BD1T		4, 6	L66008-DA	102.00	D04	CM	F		105.00	204.00	112.00	1.32	1-11261-240-0/241-0 1-11261-242-0/243-0 1-11261-244-0/245-0 1-11261-246-0/247-0

Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code (Old Code)	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
4BE1		4	L66009-DA	105.00	D04	CM	F		107.00	187.00	113.00	1.32	8-97176-715-0/716-0 8-97176-717-0/718-0 8-97176-719-0/720-0 8-97176-721-0/722-0
6BG1		6	L66010-DA	105.00	D04	CM	F		107.00	203.00	113.00	1.32	1-11261-248-0/249-0 1-11261-250-0/251-0 1-11261-252-0/253-0 1-11261-254-0/255-0
6HE1TC	7,172	6	L16711ZAA (L16549-QC)	110.00	D02	F	F	1X	113.00	210.00	119.70	6.00	8-94391-600-0
			L16711ZBA (L16549-RC)	110.00	D02	F	F	3X	113.00	210.00	119.70	6.00	8-94391-601-0
DA120	6,126	6	L22090AJB	100.00	W03	NON	F	B	113.00	220.00	119.00	8.00	9-11261-095-0, 9-11261-095-1, 9-11261-287-1
DA640	6,373	6	L22498-KA	102.00	W19	NON	F		113.00	220.00	119.00	8.00	9-11261-293-0
			L22540-UB	102.00	W19	NON	F		113.00	228.00	119.00	8.00	9-11261-288-0, 9-87692-096
4HE1	4,751	4	L66014BCA	110.00	D03	F	F	OD=1X	115.00	210.00	120.70	5.65	8-97176-723 / 724
			L66014CCA	110.00	D03	F	F	OD=3X	115.00	210.00	120.70	5.65	8-97176-725 / 726
4HF1 6HF1	4,334	4, 6	L16639-AA	112.00	D02	F	F	OD=1X	115.00	180.00	121.70	6.00	8-97176-727 8-94389-276
			L16639-BA	112.00	D02	F	F	OD=3X	115.00	180.00	121.70	6.00	8-97176-728 8-94389-276
6HH1 6HK1	8,226	6	L16712ZAA (L16549ADD)	115.00	D02	F	F	1X	118.00	210.00	123.70	6.00	8-94391-602 8-94393-273 8-98014-046-0
			L16712ZBA (L16549AED)	115.00	D02	F	F	3X	118.00	210.00	123.70	6.00	8-94391-603 8-94393-273 8-98014-047-0
6HL 4HL	4,777 7,166	4, 6	L16549ZAA (L16549-VD)	115.00	D02	F	F	1X	118.00	183.00	123.70	6.00	8-98014-042-0 8-97600-240-2
			L16549ZBA (L16549-WD)	115.00	D02	F	F	3X	118.00	183.00	123.70	6.00	8-98014-043-0 8-97600-241-2
4HG1	4,751	4	L16554ZAA (L16554-LC)	115.00	D02	F	F	1X	118.00	180.00	123.70	6.00	8-98014-048-0
			L16554ZBA (L16554-MC)	115.00	D02	F	F	3X	118.00	180.00	123.70	6.00	8-98014-049-0

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Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code (Old Code)	Bore/ A	Type	Sur- face	Finish/ Semi	Size (mm)					Reference
								Grade	B	C	D	E	
6SA1	8,413	6	L16107ZAA (L16107AEA)	115.00	D05	NON	F	1AX	119.00	216.00	125.70	6.00	1-11261-347-0
			L16107ZBA (L16107AFA)	115.00	D05	NON	F	1CX	119.00	216.00	125.70	6.00	1-11261-348-0
			L16107ZCA (L16107AGA)	115.00	D05	NON	F	2AX	119.00	216.00	125.70	6.00	1-11261-349-0
			L16107ZDA (L16107AHA)	115.00	D05	NON	F	2CX	119.00	216.00	125.70	6.00	1-11261-350-0
			L16107ZEA (L16107AJA)	115.00	D05	NON	F	3AX	119.00	216.00	125.70	6.00	1-11261-351-0
			L16107ZFA (L16107AKA)	115.00	D05	NON	F	3CX	119.00	216.00	125.70	6.00	1-11261-352-0
6UZ1		6	L16640-AB	120.00	D05	NON	F	1X/AX	123.00	239.20	129.70	6.00	1-11261-368-1
			L16640-BB	120.00	D05	NON	F	1X/CX	123.00	239.20	129.70	6.00	1-11261-369-1
			L16640-CB	120.00	D05	NON	F	3X/AX	123.00	239.20	129.70	6.00	1-11261-370-1
			L16640-DB	120.00	D05	NON	F	3X/CX	123.00	239.20	129.70	6.00	1-11261-371-1
6UZ1-F		6	L16640-EB	120.00	D03	F	F	1X/AX	123.00	239.20	129.70	6.00	
			L16640-FB	120.00	D03	F	F	1X/CX	123.00	239.20	129.70	6.00	
			L16640-GB	120.00	D03	F	F	3X/AX	123.00	239.20	129.70	6.00	
			L16640-HB	120.00	D03	F	F	3X/CX	123.00	239.20	129.70	6.00	
6SD1 6SD1T	9,839	6	L16642-AA	120.00	D05	NON	F	1X/AX	123.00	239.20	129.70	6.00	1-11261-298-0
			L16642-BA	120.00	D05	NON	F	1X/CX	123.00	239.20	129.70	6.00	1-11261-299-0
			L16642-CA	120.00	D05	NON	F	3X/AX	123.00	239.20	129.70	6.00	1-11261-300-0
			L16642-DA	120.00	D05	NON	F	3X/CX	123.00	239.20	129.70	6.00	1-11261-301-0
6SD1-F	9,839	6	L16642-EA	120.00	D05	F	F	1X/AX	123.00	239.20	129.70	6.00	
			L16642-FA	120.00	D05	F	F	1X/CX	123.00	239.20	129.70	6.00	
			L16642-GA	120.00	D05	F	F	3X/AX	123.00	239.20	129.70	6.00	
			L16642-HA	120.00	D05	F	F	3X/CX	123.00	239.20	129.70	6.00	
8PE1 10PE1 12PE1		8, 10, 12	L16531-PF	127.00	D02	F	F		130.60	233.00	136.60	6.00	1-11261-175-1

Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code (Old Code)	Bore/ A	Type	Surface	Finish/ Semi	Size (mm)					Reference
								Grade	B	C	D	E	
PE1		8, 10	L16531ZAA (L16531AHC)	127.00	D02	F	F	1X	130.60	233.00	136.60	6.00	1-11261-202-0, 1-11261-372-1
			L16531ZBA (L16531AJC)	127.00	D02	F	F	3X	130.60	233.00	136.60	6.00	1-11261-203-0, 1-11261-373-1
PC1	15,014	8, 10, 12	L16177ZBA (L16177-TA)	119.00	W18	NON	F	AX	133.00	219.25	143.70	10.00	1-11261-264-0
			L16177ZDA (L16177-VA)	119.00	W18	NON	F	AX	133.00	219.25	143.70	10.00	1-11261-272-0
			L16177ZCA (L16177-UA)	119.00	W18	NON	F	CA	133.00	219.25	143.70	10.00	1-11261-265-0
			L16177ZEA (L16177-WA)	119.00	W18	NON	F	CX	133.00	219.25	143.70	10.00	1-11261-273-0
			L16177ZAA (L16177-SA)	119.00	W18	NON	F		133.00	219.25	143.70	10.00	1-11261-111-0
6WA1TC	12,068	6	L16713ZAA (L16520-WD)	132.90	D02	F	F	1X	137.00	266.00	143.70	6.00	1-11261-362-1
			L16713ZBA (L16520-XD)	132.90	D02	F	F	3X	137.00	266.00	143.70	6.00	1-11261-363-1
6RA1 6RB1	13,741	6	L12760ZEA (L12760ADA)	135.00	D02	F	F	1	141.00	264.00	146.70	6.00	1-11261-204-0
			L12760ZFA (L12760AEA)	135.00	D02	F	F	2	141.00	264.00	146.70	6.00	1-11261-208-0
6RB1MC	13,741	6	L12760ZCA (L12760ABC)	132.90	D03	F	F	1	141.00	265.90	146.70	6.00	1-11261-202-0
			L12760ZDA (L12760ACC)	132.90	D03	F	F	2	141.00	265.90	146.70	6.00	1-11261-203-0
6RB1X	13,741	6	L12760ZAA (L12760-ZB)	135.00	D02	F	F	1	141.00	264.00	146.70	6.00	1-11261-288-0
			L12760ZBA (L12760AAB)	135.00	D02	F	F	2	141.00	264.00	146.70	6.00	1-11261-289-0
6WG1TC	15,681	6	L16552ZAA (L16552-FC)	147.00	D05	F	F	1X	151.60	267.00	158.30	6.00	1-11261-333-2
			L16714ZAA (L16552-PC)	147.00	D05	F	F	1X	151.60	267.00	158.30	6.00	1-11261-379-2
			L16552ZBA (L16552-GC)	147.00	D05	F	F	3X	151.60	267.00	158.30	6.00	1-11261-334-2
			L16714ZBA (L16552-QC)	147.00	D05	F	F	3X	151.60	267.00	158.30	6.00	1-11261-380-2

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Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code (Old Code)	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
4D56	2,476	4	L65101-AA (L55113-AA)	91.10	D01	NON	S		94.10	167.00	—	—	MD168963
4D55	2,346	4	L65112-AA	91.10	D01	NON	S		94.10	164.50	—	—	MD050430
4D56	2,476	4	L65101-AA	91.10	D01	NON	S		94.20	167.00	—	—	MD103648
			L65101-BA	91.10	D01	NON	F		94.20	167.00	—	—	MD168963
S4S	3,331	4	L65104-AA	94.00	D01	NON	S		98.00	185.50	—	—	32A07-00300
4M40	2,835	4	L65126-AA	95.00	D01	NON	S		99.00	190.00	—	—	
S4E2	2,609	4	L65115-AA	98.00	D01	NON	S		101.70	168.50	—	—	34407-05400
4D31	3,298	4	L66102-AA	100.00	D01	NON	S		104.00	191.50	—	—	ME011604
S4K S6KT	6,380	4, 6	L66103-AA	102.00	D01	NON	S		105.00	196.00	—	—	34307-00501
4D32	3,567	4	L66116-AA	104.00	D01	NON	S		107.00	192.00	—	—	ME012900
4D34	3,907	4	L66117-AA	104.00	D01	NON	S		108.00	197.50	—	—	ME013366
4D33	4,214	4	L66118-AA	108.00	D01	NON	S		112.00	198.00	—	—	ME013333
6D15T		6	L66113-CA	113.00	D03	F	F		117.00	206.00	125.00	8.00	ME071086
6D15T2	6,919	6	L66105ACA	113.00	D05	F	F	A	117.00	206.00	125.00	8.00	ME071090
			L66105BCA	113.00	D05	F	F	B	117.00	206.00	125.00	8.00	ME071091
			L66105CCA	113.00	D05	F	F	C	117.00	206.00	125.00	8.00	ME071092
			L66105-CA	113.00	D03	F	F		117.00	206.00	125.00	8.00	ME07089
6D14	6,557	6	L16131-AB	110.00	W13	NON	F		122.00	206.00	130.60	10.00	ME071178, ME071179, ME071180
6M60	7,545	6	L16641-AA	118.00	D03	F	F	1A	122.00	210.50	128.00	8.00	ME071937
			L16641-BA	118.00	D03	F	F	2A	122.00	210.50	128.00	8.00	ME071938
			L16641-CA	118.00	D03	F	F	3A	122.00	210.50	128.00	8.00	ME071939
			L16641-DA	118.00	D03	F	F	1B	122.00	210.50	128.00	8.00	ME071940
			L16641-EA	118.00	D03	F	F	2B	122.00	210.50	128.00	8.00	ME071941
			L16641-FA	118.00	D03	F	F	3B	122.00	210.50	128.00	8.00	ME071942

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Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code (Old Code)	Bore/ A	Type	Sur-face	Finish/ Semi	Size (mm)					Reference
								Grade	B	C	D	E	
6D16	7,545	6	L16189ZAA (L16189AGA)	118.00	D03	F	F	1A	122.00	206.00	128.00	8.00	ME041102
			L16189ZDA (L16189AKA)	118.00	D03	F	F	1B	122.00	206.00	128.00	8.00	ME041105
			L16189ZBA (L16189AHA)	118.00	D03	F	F	2A	122.00	206.00	128.00	8.00	ME041103
			L16189ZEA (L16189ALA)	118.00	D03	F	F	2B	122.00	206.00	128.00	8.00	ME041106
			L16189ZCA (L16189AJA)	118.00	D03	F	F	3A	122.00	206.00	128.00	8.00	ME041104
			L16189ZFA (L16189AMA)	118.00	D03	F	F	3B	122.00	206.00	128.00	8.00	ME041107
6D16R	7,545	6	L16189-ZA	118.00	D02	F	F	1A	122.00	209.00	128.00	8.00	ME071225
			L16189ACA	118.00	D02	F	F	1B	122.00	209.00	128.00	8.00	ME071228
			L16189AAA	118.00	D02	F	F	2A	122.00	209.00	128.00	8.00	ME071226
			L16189ADA	118.00	D02	F	F	2B	122.00	209.00	128.00	8.00	ME071229
			L16189ABA	118.00	D02	F	F	3A	122.00	209.00	128.00	8.00	ME071227
			L16189AEA	118.00	D02	F	F	3B	122.00	209.00	128.00	8.00	ME071230
6D17	7,545	6	L16189AUA	118.00	D02	F	F	1A	122.00	209.00	128.00	8.00	ME071538
			L16189AXA	118.00	D02	F	F	1B	122.00	209.00	128.00	8.00	ME071541
			L16189AVA	118.00	D02	F	F	2A	122.00	209.00	128.00	8.00	ME071539
			L16189AYA	118.00	D02	F	F	2B	122.00	209.00	128.00	8.00	ME071542
			L16189AWA	118.00	D02	F	F	3A	122.00	209.00	128.00	8.00	ME071540
			L16189AZA	118.00	D02	F	F	3B	122.00	209.00	128.00	8.00	ME071543
6D14T		6	L66111-BA	110.00	W11	NON	F		122.00	211.00	131.00	10.00	ME071175
6DB	8,553	6	L66130-BA (L22557-AF)	110.00	W01	NON	F		125.00	270.00	135.00	11.80	30007-62200, ME040040
6D15T 6D15(OLD)		6	L66110-BA	113.00	W02	NON	F		125.00	211.00	133.00	10.00	ME071062
			L66112-BA	113.00	W09	NON	F		125.00	206.00	133.00	10.00	ME031655/56/57
65D15(NEW)			L66120-BA	113.00	W09	NON	F		125.00	206.00	133.00	10.00	ME071041/42/43/44

Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code (Old Code)	Bore/ A	Type	Surface	Finish/ Semi	Size (mm)					Reference
								Grade	B	C	D	E	
6D40	13,023	6	L16517ZAA (L16517APA)	135.00	D03	F	F	1A	140.00	259.30	149.00	9.00	ME120025
			L16517ZDA (L16517ASA)	135.00	D03	F	F	1B	140.00	259.30	149.00	9.00	ME120028
			L16517ZBA (L16517AQA)	135.00	D03	F	F	2A	140.00	259.30	149.00	9.00	ME120026
			L16517ZEA (L16517ATA)	135.00	D03	F	F	2B	140.00	259.30	149.00	9.00	ME120029
			L16517ZCA (L16517ARA)	135.00	D03	F	F	3A	140.00	259.30	149.00	9.00	ME120027
			L16517ZFA (L16517AUA)	135.00	D03	F	F	3B	140.00	259.30	149.00	9.00	ME120030
6D22T	11,149	6	L16165ZAA (L16165BMA)	130.00	W15	NON	F	A	147.00	261.81	156.00	11.50	ME051632
			L16165ZBA (L16165BNA)	130.00	W15	NON	F	B	147.00	261.81	156.00	11.50	ME051633
			L16165ZCA (L16165BPA)	130.00	W15	NON	F	C	147.00	261.81	156.00	11.50	ME051634
8DC81 82	14,886	8	L66122-BA	135.00	W10	NON	F		154.00	229.70	163.00	11.80	ME062379/ME062597/98/99
8DC91	16,031	8	L66124-BA	135.00	W10	NON	F		154.00	259.70	163.00	11.80	(ME062602/603/604)
8DC9	16,031	8	L66106-HA	135.00	W10	DC	F		155.00	259.30	163.00	11.80	ME061782
8DC91	16,031	8	L66107-HA	135.00	W10	CF	F		155.00	259.70	163.00	11.80	ME062602
			L66107-FA	135.00	W10	DC	F		155.00	259.70	163.00	11.80	(ME062602)
8DC10	16,752	8	L66108-BA	138.00	W10	NON	F		155.00	259.70	163.00	13.40	ME062857
8DC11	17,737	8	L66109-HA	142.00	W11	DC	F		161.00	259.50	163.00	15.00	(ME060439)
			L66109-FA	142.00	W11	DC	F		161.00	259.50	163.00	15.00	ME060439
			L66109-BA	142.00	W11	NON	F		161.00	259.50	163.00	15.00	ME060439
6M7	13,023	6	L16517ZGA (L16517AVA)	135.00	D03	F	F	1A	140.00	260.60	149.00	9.00	ME180960
			L16517ZKA (L16517AYA)	135.00	D03	F	F	1B	140.00	260.60	149.00	9.00	ME180963
			L16517ZHA (L16517AWA)	135.00	D03	F	F	2A	140.00	260.60	149.00	9.00	ME180961
			L16517ZLA (L16517AZA)	135.00	D03	F	F	2B	140.00	260.60	149.00	9.00	ME180964
			L16517ZJA (L16517AXA)	135.00	D03	F	F	3A	140.00	260.60	149.00	9.00	ME180962
			L16517ZMA (L16517BAA)	135.00	D03	F	F	3B	140.00	260.60	149.00	9.00	ME180965

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Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code (Old Code)	Bore/ A	Type	Sur- face	Finish/ Semi	Size (mm)					Reference
								Grade	B	C	D	E	
SD23/25	2,289	4	L65213-AA (L55213-AA)	88.50	D04	NON	S		92.00	172.00	98.00	5.00	11012-L2002/04
TD23	2,289	4	L65201-AA	88.50	D04	NON	S		92.00	160.00	98.00	5.00	11012-02N45
			L65201-BA	89.00	D04	NON	F		92.00	160.00	98.00	5.00	11012-02N10
TD25/ BD25	2,289	4	L65202-AA	92.90	D04	NON	S		96.00	160.00	102.00	5.00	11012-44G10
TD27	2,664	4	L65023-AA (L55215-AA)	95.50	D04	NON	S		99.00	160.00	105.00	5.00	11012-43G45
TD42	4,169	6	L65228-BA	96.00	D02	NON	F		99.00	164.00	105.00	5.00	11012-06J00
TD27	2,664	4	L65203-AA	95.50	D04	NON	S		99.00	160.00	105.00	5.00	11012-43G10
FE6	6,925	6	L16618-DA	108.00	D03	F	F	0	111.00	217.00	116.00	8.00	11012-Z5604
			L16618-GA	108.00	D03	F	F	0	111.00	220.00	116.00	8.00	11012-Z5518
			L16618-EA	108.00	D03	F	F	1	111.00	217.00	116.00	8.00	11012-Z5604
			L16618-HA	108.00	D03	F	F	1	111.00	220.00	116.00	8.00	11012-Z5518
			L16618-FA	108.00	D05	NON	F		111.00	217.00	116.00	8.00	11012-Z5604
			L16618-JA	108.00	D05	NON	F		111.00	220.00	116.00	8.00	11012-Z5518
			L16618-AA	108.00	D03	F	F	0	111.00	212.00	116.00	8.00	11012-Z5616
			L16618-BA	108.00	D03	F	F	1	111.00	212.00	116.00	8.00	11012-Z5617
			L16618-KA	108.00	D03	F	F	2	111.00	212.00	116.00	8.00	
FD42	4,214	4	L66231-BA	108.00	D05	NON	F		111.00	191.00	116.00	8.00	11012-0T000 11012-0T001
FD46	4,617	4	L66232-BA	108.00	D05	NON	F		111.00	215.00	116.00	8.00	11012-0T300 11012-0T301
ND(OLD)	6,842	6	L12656ZCA (L12656AMA)	110.00	D05	NON	F	0	115.00	229.00	119.00	3.00	11012-95001
			L12656ZDA (L12656ANA)	110.00	D05	NON	F	1	115.00	229.00	119.00	3.00	11012-95002
ND6	6,842	6	L12656ZEA (L12656AKA)	110.00	D05	NON	F	0	115.00	229.00	121.00	3.00	11012-95065
			L12656ZFA (L12656ALA)	110.00	D05	NON	F	1	115.00	229.00	121.00	3.00	11012-95066
NE/ NE6(H)	6,842	6	L12656ZAA (L12656-WC)	110.00	D05	F	F	0	115.00	229.00	119.00	3.00	11012-95005
			L12656ZBA (L12656-XC)	110.00	D05	F	F	1	115.00	229.00	119.00	3.00	11012-95006

Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code (Old Code)	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
NE6TA	7,000	6	L16534ZAA (L16534-SB)	110.00	D03	F	F	0	115.00	229.00	121.00	3.00	11012-95063
			L16534ZBA (L16534-TB)	110.00	D03	F	F	1	115.00	229.00	121.00	3.00	11012-95064
NF6	9,160	6	L66204-CA	120.00	D05	F	F		123.00	226.00	129.00	8.00	11012-95516
MD92	9,203	6	L66230-BA	125.00	D05	NON	F		129.00	200.00	135.00	8.00	11012-Z6008
PD6	10,308	6	L12568ZAA (L12568-MB)	125.00	D05	NON	F	0	130.00	259.00	134.00	3.00	11012-96009
			L12568ZBA (L12568-MB)	125.00	D05	NON	F	1	130.00	259.00	134.00	3.00	11012-96010
			L12568ZCA (L12568-MB)	125.00	D05	NON	F	2	130.00	259.00	134.00	3.00	11012-96011
PE6 PE6T PF6	11,670 12,503	6	L16701-AB	133.00	D05	NON	F		138.00	259.00	144.00	3.00	11012-96565 11012-96575 11012-96576
			L16701-BB	133.00	D05	F	F		138.00	259.00	144.00	3.00	(11012-96565) (11012-96575) (11012-96576)
PE6	11,670	6	L66205-BA	133.00	D05	NON	F		138.00	259.00	142.00	3.00	11012-96500
PE6 PE6T	11,670	6	L66206-BA	133.00	D05	NON	F		138.00	259.00	142.00	3.00	11012-96561 11012-96562
PE6TA	11,670	6	L66223-BA	133.00	D05	NON	F		138.00	259.00	144.00	3.00	11012-96607
RD8	14,313	8	L66214-BA	135.00	W09	NON	F		153.00	243.00	161.00	8.20	11012-97025
RE8	15,115	8	L66208-BA	135.00	W09	NON	F		154.00	238.00	161.00	11.10	11012-97161
			L66208-GA	135.00	W09	DC	F		154.00	238.00	161.00	11.10	11012-97161
GE13	13,074	6	L66229-FA	136.00	W10	DC	F		157.50	243.60	166.50	9.65	11012-00Z11 11012-00Z13
RF8	16,991	8	L66210-GA	138.00	W09	DC	F		160.00	235.80	168.50	12.30	11012-97164
			L66210-BA	138.00	W09	NON	F		160.00	235.80	168.50	12.30	(11012-97164)
			L66211-GA	138.00	W09	DC	F		160.00	235.80	167.00	12.30	11012-97178
			L66211-BA	138.00	W09	NON	F		160.00	235.80	167.00	12.30	(11012-97178)
RG8	17,991	8	L66212-GA	142.00	W10	DC	F		160.00	236.00	167.00	12.30	11012-97219
			L66212-BA	142.00	W10	NON	F		160.00	236.00	167.00	12.30	(11012-97219)

HINO

ISUZU

KOMATSU

MITSUBISHI

UD TRUCKS

TOYOTA

MAZDA

KIA

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Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code (Old Code)	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
2C	1,974	4	L65307-AA (L55307-AA)	86.00	D01	NON	S		90.00	158.00	—	—	11461-64060
2J(OLD)	2,481	4	L65301-AA	88.00	D01	NON	S		92.00	183.00	—	—	11461-48010
2J(NEW)	2,481	4	L65302-AA	88.00	D01	NON	S		92.00	184.00	—	—	11461-48011
2H	3,980	6	L65308-AA (L55308-AA)	91.00	D03	NON	S		95.00	184.00	100.80	2.55	11461-68010
2L	2,446	4	L65317-AA (L55309-AA)	92.00	D01	NON	S		96.00	160.00	—	—	11461-54060
1HZ	4,163	6	L65303-AA	94.00	D01	NON	S		98.00	190.20	—	—	11461-17010
B	2,977	4	L65311-AA	95.00	D03	NON	F		100.00	190.20	108.00	2.50	11461-56010
2B	3,168	4	L65314-AA (L55314-AA)	98.00	D03	NON	S		102.00	190.20	108.00	2.50	11461-57010
13B	3,431	4	L66304-AA	101.60	D03	NON	S		106.00	190.20	111.70	2.50	11461-58020
3B	3,431	4	L66315-AA	101.60	D03	NON	S		106.00	187.70	111.70	2.50	11461-58010
14B	3,660	4	L66316-AA	101.60	D01	NON	S		106.00	200.00	—	—	11461-58040

HINO

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KOMATSU

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UD TRUCKS

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MAZDA

KIA

- HINO
- ISUZU
- KOMATSU
- DAEWOO
- UD TRUCKS
- TOYOTA
- MAZDA
- KIA

Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code (Old Code)	Bore/ A	Type	Sur- face	Finish/ Semi	Size (mm)					Reference
								Grade	B	C	D	E	
SLA1	3,500	4	L16191ZCA (L16191BUB)	100.00	D03	F	F	RED	103.00	193.70	108.00	2.50	SLY0-10-313
			L16191ZDA (L16191BVB)	100.00	D03	F	F		103.00	193.70	108.00	2.50	SLY0-10-311
SL	3,500	4	L16191ZAA (L16191AKB)	100.01	D03	F	F	GREEN	103.50	193.70	108.00	2.50	SL01-23-312
			L16191ZBA (L16191AJB)	100.01	D03	F	F	RED	103.50	193.70	108.00	2.50	SL01-23-311
TF01	4,021	4	L16238ZAA (L16238ACC)	105.50	D03	F	F	GREEN	109.00	200.00	114.50	6.00	TFY0-10-311
			L16238ZBA (L16238ABC)	105.50	D03	F	F	RED	109.00	200.00	114.50	6.00	TFY0-10-313

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