

● 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	Bl-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	Bl-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	Bl-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	3.85	BF	SR	Cr	Fe	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	SJH20068ZZ	4	1st	104.0	2.806	4.3	BF-K1	HB	Cr	Cr	13011-2891A
					2nd	104.0	2.5	4.3	T1-IC	CR	Cr	Cr	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	SJH20047ZZ	4	1st	104.0	2.806	4.3	BF-K1	HB	Cr	Cr	13011-2270A
					2nd	104.0	2.5	4.3	T1-IC	CR	Fe	Fe	13011-2270C
					Oil	104.0	5.0	4.7	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	3.85	BF	SR	Cr	Fe	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
W06D-TI	6,014	Ranger	SJH20055ZZ	6	1st	104.0	2.806	4.3	BF-K1	HB	Cr	Cr	13011-2610A
					2nd	104.0	2.5	4.3	T1-IC	CR	Cr	Cr	13011-2680A
					Oil	104.0	5.0	4.7	E-BC3	CR	Cr	Fe	13011-2950A
W04D-TK	4,009	Ranger	SDH20103ZX	4	1st	104.0	2.806	3.85	BF-K1	SR	Cr	Fe	13011-4080B
		Dutro			2nd	104.0	2.0	4.3	T1	CR	Fe	Fe	13011-4080C
		Rainbow			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	SCH20006ZZ	6	1st	105.0	3.0	4.2	T1	CR	Cr	Fe	13011-1210
		KC300 KC320			2nd	105.0	3.0	4.2	BI-TUC	CR	Fe	Fe	13011-1550
		TE11 TE61			3rd	105.0	3.0	4.2	BI-TUC	CR	Fe	Fe	13011-1550A
		TE61D			Oil 1	105.0	4.5	4.2	BC1	HB	Fe	Fe	13019-1220A(cyl)
		Bus			Oil 2	105.0	4.5	4.2	BC1	HB	Fe	Fe	
EH100	5,871	Truck	SCH20021ZX	6	1st	105.0	2.5	3.85	BF	SR	Cr	Fe	13011-1150
		BH15 KL500			2nd	105.0	2.5	4.3	T1-IC	CR	Fe	Fe	13019-1210A(cyl)
		HL100			3rd	105.0	2.5	4.3	BI-TUC	CR	Fe	Fe	
		Bus			Oil 1	105.0	4.0	4.3	C1	CR	Cr	Fe	
		BX320			Oil 2	105.0	4.0	4.3	BC3	CR	Fe	Fe	
Tractor HL100													
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		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	
EH300	6,211	Truck	SDH20022ZX	6	1st	108.0	3.0	4.05	BF	SR	Cr	Fe	13011-1032
		KR301			2nd	108.0	2.5	4.5	T1-IC	CR	Cr	Fe	13011-1032A
		KL501			Oil 1	108.0	5.0	4.95	E-BC16	SR	GN	GN	13011-1062
		Bus			Oil 2	108.0	4.0	4.5	BC3	CR	Fe	Fe	
RL300													
RD300													

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						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	
			SJH20084ZZ	6	1st	108.0	2.806	4.5	BF-K1-IC	HB	Cr	Fe	13011-3520A
					2nd	108.0	2.0	4.5	T1-IC	HB	Cr	Cr	13019-1280A(cyl)
					3rd	108.0	2.0	4.5	BI-TUC	HB	Cr	Fe	
					Oil	108.0	4.0	4.15	E-BC16	SR	Cr	Fe	
DS50 DS60 DS80	7,982	Truck TA14 TA14D TC51 TH17 TH61 TH80 TH320 TH340D 2C440 2C340D 2H11D 2H12D 2K11 2L100 Bus BD15 BD15F BD35 BD35P BG13 BH15 BT51 BT51S BT71 RB10 RB10P RB120 RB120P	SCH20007ZZ	6	1st	110.0	3.0	4.5	T1	CR	Cr	Fe	13011-1230
					2nd	110.0	3.0	4.5	T1	CR	Fe	Fe	13011-1250
					3rd	110.0	3.0	4.5	TUC	CR	Fe	Fe	13011-1261
					Oil 1	110.0	4.5	4.5	BC1	CR	Cr	Fe	13011-1650
					Oil 2	110.0	4.5	4.5	BC1	CR	Fe	Fe	13011-1830
			SJH20007ZZ	6	1st	110.0	3.0	4.5	T1	CR	Cr	Cr	13011-1680
					2nd	110.0	3.0	4.5	T1	CR	Fe	Fe	
					3rd	110.0	3.0	4.5	TUC	CR	Fe	Fe	
					Oil 1	110.0	4.5	4.4	E-BC3	CR	Cr	Fe	
					Oil 2	110.0	4.5	4.5	BC1	CR	Fe	Fe	
EH700 H07C	6,443	Ranger 4D Ranger 5 Ranger 7D Truck KLSD KP6D	SDH20043ZX	6	1st	110.0	3.0	4.05	BF	SR	Cr	Fe	13011-1610B
					2nd	110.0	2.5	4.5	T1-IC	CR	Fe	Fe	13011-1620
					3rd	110.0	2.5	4.5	BI-TUC	CR	Cr	Fe	13011-1620A
					Oil	110.0	5.0	4.95	E-BC16	SR	GN	GN	13011-1620B

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						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
H07D	7,412	Ranger	SDH20056ZX	6	1st	110.0	3.0	4.05	BF	SR	Cr	Fe	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)
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	B1-TUC	CR	Cr	Fe	13019-1330A(cyl)
					Oil	110.0	4.0	4.35	E-BC16	SR	GN	GN	
			SJH20079ZZ	6	1st	110.0	2.806	4.5	BF-K1-IC	HB	Cr	Fe	13011-3470A
					2nd	110.0	2.0	4.5	T1-IC	HB	Cr	Cr	13011-3510A
					3rd	110.0	2.0	4.5	B1-TUC	HB	Cr	Fe	13019-1340A(cyl)
					Oil	110.0	4.0	4.15	E-BC16	SR	Cr	Fe	
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	4.15	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	4.15	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	
J07E	6,403	Ranger Melpha	SDH20104ZY	5	1st	112.0	2.5	4.15	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	

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						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
J05C	5,307	Ranger Dutro Melpha Liesse	SDH20081ZY	4	1st	114.0	3.0	4.5	BF	HB	Cr	Fe	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
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)
			SDH20082ZZ	5	1st	114.0	3.0	4.5	BF	HB	Cr	Fe	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	SDH20067ZZ	6	1st	114.0	3.0	4.5	BF	HB	Cr	Fe	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)
			SWH20090ZZ	6	1st	114.0	3.0	4.5	BF	HB	Cr	Fe	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	BL-TUC	CR	Cr	Fe	13011-1710
					Oil	116.0	5.0	4.95	E-BC16	SR	GN	GN	
P09B-TI	8,501	For Marine	SJH20046ZZ	6	1st	117.8	3.306	4.1	BF-K1	SR	GN	GN	13011-2280A
					2nd	117.8	2.806	4.8	T1-K1-IC	HB	Cr	Cr	13011-2830A
					3rd	117.8	2.5	4.8	BL-TUC	CR	Cr	Fe	(Stationary Engine)
					Oil	117.8	5.0	4.7	E-BC3	HB	Cr	Fe	13019-1440A(cyl)
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	BL-TUC	HB	Cr	Fe	
					Oil	117.8	4.0	4.65	E-BC16	SR	Cr	Fe	

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						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower			
DK10 DK20	10,178	Truck	SJH20012ZZ	6	1st	120.0	3.5	4.6	BF	HB	Cr	Cr	13011-1200		
		KA300 KF700			2nd	120.0	3.5	4.6	T1-IC	CR	Fe	Fe	13011-1270		
		KF720			3rd	120.0	3.5	4.6	B1-TUC	CR	Fe	Fe	13011-1280		
		TC30 TC320			Oil 1	120.0	5.0	4.5	E-BC3	CR	Cr	Fe	13011-1280A		
		Bus			Oil 2	120.0	5.0	4.6	BC1	HB	Cr	Fe	13011-1290		
		RC10-P RC100 RC120 RC120P RC140P RC300 RC300-P RC320													
EB300	9,838	Dump Truck	SDH20017ZZ	6	1st	120.0	3.5	4.6	BF	HB	Cr	Fe	12011-1330		
		KB112D			2nd	120.0	3.5	4.6	T1-IC	CR	Fe	Fe	13011-1720		
					3rd	120.0	3.5	4.6	B1-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	B1-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	B1-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	B1-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)

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	
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	BI-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 13011-3870A 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	BI-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	BI-TUC	CR	Cr	Fe	13019-1550A(cyl)
					Oil	127.0	5.0	5.0	E-BC3	CR	Cr	Fe	
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	

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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			
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	B1-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	B1-TUC	CR	Cr	Fe	13011-1091A		
					Oil	132.0	6.0	5.5	E-BC3	CR	Cr	Fe	13011-1091B 13019-1560A(cyl)		
K13B-TI			SJH20074ZZ	6	1st	132.9	3.306	4.5	BF-K1	SR	GN	GN	13011-3210A		
					2nd	132.9	3.5	5.4	T1-IC	HB	Cr	Cr	13019-1570A (cyl)		
					3rd	132.9	3.5	5.4	B1-TUC	CR	Cr	Fe			
					Oil	132.9	5.0	5.5	E-BC3	HB	Cr	Fe			
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	B1-TUC	CR	Cr	Fe	13011-1460		
					Oil	135.0	6.0	5.5	E-BC3	CR	Cr	Fe			
EF550	16,260	Super Dolphin	SDH20039ZX	V8	1st	135.0	2.806	5.4	BF-K1	HB	Cr	Fe	13011-2010A		
					2nd	135.0	3.5	5.4	T1-IC	CR	Fe	Fe	13019-1590A(cyl)		
					3rd	135.0	3.0	5.4	B1-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	B1-TUC	CR	Cr	Fe	
							Oil	135.0	5.0	4.95	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	
K13C	12,882	Truck Ranger Super Dolphin Profia FS FR FN	SJH20051ZZ	6	1st	135.0	3.306	5.4	BF-K1	HB	Cr	Fe	13011-2410A
					2nd	135.0	3.5	5.4	T1-IC	HB	Cr	Cr	13019-1580A(cyl)
					3rd	135.0	3.5	5.4	Bl-TUC	CR	Cr	Fe	
					Oil	135.0	6.0	5.5	E-BC3	HB	Cr	Fe	
		SJH20071ZX	6	1st	135.0	3.306	4.7	BF-K1	SR	GN	GN	13011-3090A	
				2nd	135.0	3.5	5.4	T1-IC	HB	Cr	Cr	13011-2841A	
				3rd	135.0	3.5	5.4	Bl-TUC	CR	Cr	Fe		
				Oil	135.0	5.0	4.95	E-BC16	SR	Cr	Fe		
		SJH20085ZZ	6	1st	135.0	3.306	5.4	BF-K1	HB	Cr	Fe	13011-3540A	
				2nd	135.0	3.5	5.4	T1-IC	HB	Cr	Cr		
				3rd	135.0	3.5	5.4	Bl-TUC	CR	Cr	Fe		
				Oil	135.0	4.0	4.65	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
					2nd	137.0	3.5	5.4	T1-IC	CR	Fe	Fe	13019-1090B(cyl)
					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
					2nd	137.0	3.5	5.4	T1-IC	CR	Fe	Fe	13011-1011
					3rd	137.0	3.5	5.4	Bl-TUC	CR	Cr	Fe	13011-1021
					Oil	137.0	6.0	5.5	E-BC3	CR	Cr	Fe	13011-1021B 13011-2210 13011-3750B 13019-1610A(cyl)
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
					2nd	137.0	3.5	5.4	T1-IC	CR	Fe	Fe	13011-1112
					3rd	137.0	3.5	5.4	Bl-TUC	CR	Cr	Fe	13011-1121
					Oil	137.0	6.0	5.5	E-BC3	CR	Cr	Fe	13011-1121B 13011-1122 13011-2170B 13011-2180 13019-1610A(cyl)

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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	
EV700	19,900	Truck SH HE526 SS TC562	SDH20028ZZ	V10	1st	137.0	3.306	5.4	BF-K1	HB	Cr	Fe	13011-1741
					2nd	137.0	3.5	5.4	T1-IC	CR	Fe	Fe	13011-1741B
					3rd	137.0	3.5	5.4	B1-TUC	CR	Cr	Fe	13011-1751
					Oil	137.0	6.0	5.5	E-BC3	CR	Cr	Fe	13011-2200A 13019-1610A(cyl)
EF700T EF750T	15,920	Bus RU60/63	SDH20031ZX	V8	1st	137.0	3.306	4.7	BF-K1	SR	GN	GN	13011-1890
	16,745				2nd	137.0	3.306	5.4	T1-K1-IC	CR	Cr	Fe	13011-1891
					3rd	137.0	3.5	5.4	B1-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 SS SH FS	SDH20040ZZ	V8	1st	137.0	2.806	5.4	BF-K1	HB	Cr	Fe	13011-1990A
					2nd	137.0	3.5	5.4	T1-IC	CR	Fe	Fe	13019-1670A(cyl)
					3rd	137.0	3.0	5.4	B1-TUC	CR	Cr	Fe	
					Oil	137.0	5.0	5.0	E-BC3	CR	Cr	Fe	
F17D EF750	17,238	Selega Super Dolphin	SDH20059ZX	V8	1st	137.0	3.306	4.7	BF-K1	SR	GN	GN	13011-2710A
	16,745				2nd	137.0	3.5	5.4	T1-IC	HB	Cr	Fe	
					3rd	137.0	3.5	5.4	B1-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	B1-TUC	CR	Cr	Fe	13019-1620A(cyl)
					Oil	137.0	5.0	4.95	E-BC16	SR	Cr	Fe	
F17D-TI	17,238	Selega Super Dolphin	SJH20065ZZ	V8	1st	137.0	3.306	5.4	BF-K1	HB	Cr	Fe	13011-2910A
					2nd	137.0	3.306	5.4	T1-K1-IC	HB	Cr	Cr	13019-1660A(cyl)
					3rd	137.0	3.5	5.4	B1-TUC	CR	Cr	Fe	
					Oil	137.0	5.0	4.95	E-BC16	SR	Cr	Fe	
			SJH20078ZZ	V8	1st	137.0	3.306	5.4	BF-K1	HB	Cr	Fe	13011-3480A
		2nd			137.0	3.5	5.4	T1-IC	HB	Cr	Cr	13019-1650A(cyl)	
		3rd			137.0	3.5	5.4	B1-TUC	CR	Cr	Fe		
		Oil			137.0	4.0	4.15	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	B1-TUC	CR	Cr	Fe	13011-2472A
					Oil	139.0	6.0	5.5	E-BC3	CR	Cr	Fe	13019-1690A(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	
F17C F17E	17,238	Super Dolphin Selega	SDH20053ZX	V8	1st	139.0	3.306	4.7	BF-K1	SR	GN	GN	13011-2810A
					2nd	139.0	3.5	5.5	T1-IC	CR	Fe	Fe	13011-3150A
					3rd	139.0	3.5	5.5	Bl-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	Bl-TUC	CR	Cr	Fe	13019-1700A(cyl)
					Oil	139.0	5.0	4.95	E-BC16	SR	GN	GN	
F20C	19,688	Ranger Truck Super Dolphin Profia FS	SJH20062ZZ	V8	1st	146.0	3.306	5.6	BF-K1	HB	Cr	Fe	13011-2792A
					2nd	146.0	3.5	5.6	T1-IC	HB	Cr	Cr	13011-3250A
					3rd	146.0	3.5	5.7	Bl-TUC	CR	Cr	Fe	13019-1710A(cyl)
					Oil	146.0	5.0	4.95	E-BC16	SR	Cr	Fe	
			SJH20077ZZ	V8	1st	146.0	3.306	5.6	BF-K1	HB	Cr	Fe	13011-3320A
					2nd	146.0	3.0	5.6	T1-IC	HB	Cr	Cr	13019-1720A(cyl)
					3rd	146.0	3.0	5.7	Bl-TUC	HB	Cr	Fe	
					Oil	146.0	4.0	4.65	E-BC16	SR	Cr	Fe	
V25C	24,610	Super Dolphin Profia SS	SJH20069ZZ	V10	1st	146.0	3.306	5.6	BF-K1	HB	Cr	Fe	13011-2980A
					2nd	146.0	3.5	5.6	T1-IC	HB	Cr	Cr	13011-2981A
					3rd	146.0	3.5	5.7	Bl-TUC	CR	Cr	Fe	13019-1710A(cyl)
					Oil	146.0	5.0	4.95	E-BC16	SR	Cr	Fe	
V26C	25,977	Super Dolphin	SJH20080ZY	V10	1st	150.0	3.306	5.5	BF-K1	SR	GN	GN	13011-3450A
					2nd	150.0	3.0	5.8	T1-IC	HB	Cr	Cr	13019-1730A(cyl)
					3rd	150.0	3.0	5.8	Bl-TUC	HB	Cr	Fe	
					Oil	150.0	4.0	4.65	E-BC16	SR	Cr	Fe	
F21C	20,781	Selega Super Dolphin	SJH20076ZY	V8	1st	150.0	3.306	5.5	BF-K1	SR	GN	GN	13011-3310A
					2nd	150.0	3.0	5.8	T1-IC	HB	Cr	Cr	13019-1730A(cyl)
					3rd	150.0	3.0	5.8	Bl-TUC	HB	Cr	Fe	
					Oil	150.0	4.0	4.65	E-BC16	SR	Cr	Fe	

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