

● 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	2.20	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 (TCC-G-0082)	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	2.0	NIFF-H	SR	Cr	Fe	13011-40051 13011-40052
K3-VE	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
2SZ					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 (TCC-G-0057)	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			TCC-J-0017	4	1st	72.5	1.0		BF-IB	SR	GN	GN	13011-47031
					2nd	72.5	1.0		BI-TUC	SR	Fe	Fe	
					Oil	72.5	1.5		E-BC16	SR	GN	GN	
1NR-FE			TCC-H-0118	4	1st	72.5	1.0		BF-IB	SR	GN	GN	13011-47033
					2nd	72.5	1.0		BI-TUC	SR	Cr	Fe	
					Oil	72.5	2.0		NIFF-H	SR	GN	GN	
2E-LU 2E-ELU	1,295	Corolla Starlet Sprinter	SWT10105ZZ	4	1st	73.0	1.5	2.65	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	2.85	NIFF-S	SR	GN	GN	13011-11060 13011-11061
3E 3E-E	1,456	Tercel Corsa											
3E-E		Tercel Corsa Corolla	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	

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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	
4E-FE	1,331	Corolla	SWT10128ZZ	4	1st	74.0	1.2	2.7	BF	SR	Cr	Fe	13011-11122
		Starlet			2nd	74.0	1.2	3.1	TUC	CR	Fe	Fe	13011-11140
		Sprinter			Oil	74.0	3.0	2.85	NIFF-S	SR	Cr	Fe	
		Tercel Corsa											
K	1,077	Publica	SWT10052ZY	4	1st	75.0	2.0	3.6	BF	CR	Cr	Fe	13011-22011
		Starlet			2nd	75.0	2.0	3.6	T1	CR	Fe	Fe	13011-24010
Sprinter	Oil	75.0			4.0	3.05	NIFF-S	SR	Cr	Fe	13011-24011		
Corolla												13011-24012	
3K	1,166	Corona										13011-24020	
4K	1,290	Daihatsu Charman										13011-24030	
4K-E	1,290	Corolla	SWT10109ZZ	4	1st	75.0	1.5	3.05	BF	SR	Cr	Fe	13011-13010
		Starlet			2nd	75.0	1.5	3.4	T1	CR	Fe	Fe	13011-13060
		Sprinter			Oil	75.0	4.0	3.05	NIFF-S	SR	GN	GN	
1G-EU	1,988	Soarer	SWT10073ZZ	6	1st	75.0	1.5	3.25	BF	HB	Cr	Fe	13011-70010
		Crown			2nd	75.0	1.5	3.4	T1	CR	Fe	Fe	13011-70030
		Mark II			Oil	75.0	4.0	3.05	NIFF-S	SR	Cr	Fe	
Chaser Cresta													
1G-FE	1,988	Crown	SWT10170ZZ	6	1st	75.0	1.2	2.5	BF	SR	Cr	Fe	13011-70110
		Mark II			2nd	75.0	1.2	2.8	TUC	CR	Fe	Fe	
		Chaser Cresta			Oil	75.0	3.0	2.8	NIFF-S	SR	Cr	Fe	
1G-GEU	1,988	Altezza	SWT10212ZZ	6	1st	75.0	1.2	3.05	BF-IB	SR	Cr	Fe	13011-88300
		Crown			2nd	75.0	1.5	3.2	TUC	CR	Cr	Fe	
		Cresta			Oil	75.0	2.8	2.8	NIFF-S	SR	Cr	Fe	
		Supra Soarer Chaser Mark II											
M 2M	1,988	Crown	SXT10004ZZ	6	1st	75.0	2.0	3.6	T1	CR	Cr	Cr	13011-41011
	2,253				2nd	75.0	2.0	3.6	T1	CR	Fe	Fe	13011-41015
					Oil	75.0	4.0	3.15	NIFF-S	SR	Cr	Fe	13011-41040
1NZ-FE 2NZ-FE	1,496	Vitz	SWT10192ZZ	4	1st	75.0	1.2	2.5	BF	SR	GN	GN	13011-21050
	1,298	1st			2nd	75.0	1.2	2.8	TUC	CR	Fe	Fe	13011-21041
		Porte			Oil	75.0	2.0	2.20	NIFF-H	SR	GN	GN	
	Corolla Funcargo												
2NZ-FE	1,298	Yaris	SWT10211ZZ	4	1st	75.0	1.2	2.5	BF	SR	GN	GN	13011-21060
		Vitz			2nd	75.0	1.2	2.5	TUC	HB	Cr	Fe	
		Funcargo			Oil	75.0	3.0	2.55	NIFF-S	SR	GN	GN	

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						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
1NZ-FXE	1,497	Prius Hybrid	SDT10222ZZ	4	1st	75.0	1.2	2.5	BF	SR	GN	GN	13011-21030
					2nd	75.0	1.2	2.8	TUC	CR	Fe	Fe	13011-21070
					Oil	75.0	2.0	2.75	E-BC16	SR	GN	GN	
			SWT10229ZY	4	1st	75.0	0.8	2.5	BF-IB	SR	GN	GN	13011-21100
					2nd	75.0	1.0	2.3	T1	SR	Fe	Fe	13011-21130
					Oil	75.0	1.5	2.1	NIFF-H	SR	Cr	Fe	
2A-U 2A-LU	1,295	Tercel Corolla Corolla	SWT10068ZX	4	1st	76.0	2.0	2.85	BF	SR	Cr	Fe	13011-14010
					2nd	76.0	2.0	3.7	T1	CR	Fe	Fe	13011-14020
					Oil	76.0	4.0	3.0	NIFF-S	SR	Cr	Fe	13011-14021
3P 4P	1,350	Hi Ace Corona Van Toyo Ace	SWT10009ZZ	4	1st	76.6	2.0	3.5	T1	CR	Cr	Fe	13011-23030
					2nd	76.6	2.0	3.5	T1	CR	Fe	Fe	
					Oil	76.6	4.0	3.3	NIFF-S	SR	Cr	Fe	
1A-U 3A-U	1,452	Corona Tercel Corolla Sprinter Corolla	SWT10078ZX	4	1st	77.5	1.5	2.85	BF	SR	Cr	Fe	13011-15010
					2nd	77.5	1.5	3.4	T1	CR	Fe	Fe	13011-15011
					Oil	77.5	2.8	2.8	NIFF-S	SR	Cr	Fe	13011-15020
													13011-15021
13011-15031													
2R	1,490	Corona Stout Hi Lux Toyo Ace Bus	SWT10014ZZ	4	1st	78.0	2.0	3.7	T1	CR	Cr	Fe	13011-31010
					2nd	78.0	2.5	3.6	TUC	CR	Cr	Fe	13011-31030
					Oil	78.0	4.0	3.05	NIFF-S	SR	Cr	Fe	13011-31040
5A	1,498	Corolla Sprinter Carina	SWT10161ZZ	4	1st	78.7	1.5	2.65	BF	SR	Cr	Fe	13011-15050
					2nd	78.7	1.5	3.5	T1	CR	Fe	Fe	
					Oil	78.7	3.0	2.8	NIFF-S	SR	Cr	Fe	
5A-F 5A-FE	1,498	Corolla	SWT10181ZZ	4	1st	78.7	1.2	2.85	BF	SR	Cr	Fe	13011-15100
					2nd	78.7	1.5	3.5	T1	CR	Fe	Fe	13011-15120
					Oil	78.7	3.0	2.8	NIFF-S	SR	Cr	Fe	
8A-FE	1,342	Vios	TCC-G-0058	4	1st	78.7	1.2		BF	SR	GN	GN	13011-15130
					2nd	78.7	1.5		T1	CR	Fe	Fe	
					Oil	78.7	3.0		NIFF-S	SR	GN	GN	
1ZZ-FE 3ZZ-FE	1,794	Corolla Vista	SWT10183ZZ	4	1st	79.0	1.2	2.65	BF	SR	Cr	Fe	13011-22030
					2nd	79.0	1.2	3.2	TUC	CR	Fe	Fe	13011-22040
	1,598	Welcab			Oil	79.0	3.0	2.55	NIFF-S	SR	Cr	Fe	13011-22100

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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			
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-S	SR	Cr	Fe	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-S	SR	GN	GN			
		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-S	SR	Cr	Fe	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-S	SR	Cr	Fe	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	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		
7A-FE	1,762	Premio			Oil	81.0	3.0	2.85	NIFF-S	SR	GN	GN		13011-16300	
		Sprinter												13011-16320	
		Caldina													
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	SWT10115ZZ	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			

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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	
4GR-E30	2,499	Crown Mark X Lexus IS250	SDT10225ZZ	V6	1st	83.0	1.2	2.7	BF	SR	GN	GN	13011-31220
					2nd	83.0	1.2	2.7	BI-TUC	SR	Cr	Fe	13011-31260
					Oil	83.0	2.0	2.75	E-BC16	SR	GN	GN	13011-31270
2S-ELU	1,995	Vista Camry	SWT10088ZZ	4	1st	84.0	1.5	3.45	BF	SR	Cr	Fe	13011-74010
					2nd	84.0	1.5	3.8	T1	CR	Fe	Fe	13011-74020
					Oil	84.0	4.0	3.3	NIFF-S	SR	Cr	Fe	13011-74040
21R	1,972	Corona 2000	SXT10067ZZ	4	1st	84.0	2.0	4.0	BF	CR	Cr	Cr	13011-37010
					2nd	84.0	2.0	4.0	T1	CR	Cr	Fe	
					Oil	84.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
	1,972	Celica Liftback Chaser Mark II	SWT10076ZZ	4	1st	84.0	1.5	3.45	BF	SR	Cr	Fe	13011-37030
					2nd	84.0	2.0	4.0	T1	CR	Cr	Fe	13011-37050
					Oil	84.0	4.0	3.25	NIFF-S	SR	Cr	Fe	13011-37060
21R 21R-C	1,972	Cressida Mark II	SWT10102ZZ	4	1st	84.0	1.5	3.1	BF	SR	GN	GN	13011-37070
					2nd	84.0	1.5	3.8	T1	CR	Cr	Fe	13011-37071
					Oil	84.0	4.0	3.05	NIFF-S	SR	GN	GN	
2T 2T-C 12T	1,588	Corona 1600 Celica Corolla 1600ST	SWT10040ZZ	4	1st	85.0	2.0	4.0	BF	CR	Cr	Fe	13011-26020
					2nd	85.0	2.0	4.0	T1	CR	Fe	Fe	13011-26041
					Oil	85.0	4.0	3.25	NIFF-S	SR	Cr	Fe	13011-26040 13011-27020
2T	1,588	Corona 1600 Corona 1800	SWT10059ZZ	4	1st	85.0	1.5	3.25	BF	SR	Cr	Fe	13011-28010
					2nd	85.0	1.5	3.8	T1	CR	Fe	Fe	13011-28011
3T	1,770	Camry Celica	SWT10059ZZ	4	Oil	85.0	4.0	3.25	NIFF-S	SR	Cr	Fe	13011-28020 13011-28030 13011-28071
6R	1,707	Corona RT61 · 71 · 77 RT84 · 94 RX10 · 20 · 26 RX16V RT88V	SWT10019ZZ	4	1st	86.0	2.0	3.9	T1	CR	Cr	Fe	13011-31010
					2nd	86.0	2.5	3.9	T1	CR	Cr	Fe	13011-33020
					Oil	86.0	4.0	3.25	NIFF-S	SR	Cr	Fe	13011-33021 13011-33022 13011-33030
7R	1,591	Corona RT60 · 70 · 76	SWT10019ZZ	4									
8R	1,858	Corona MARK II RT62K RT72K RT72S	SWT10019ZZ	4									

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						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower			
1Y-J	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-U	1,812	Town Ace Lite Ace			Oil	86.0	4.0	3.25	NIFF-S	SR	Cr	Fe	13011-71030		
														13011-72020	
3Y-CE	1,998	Mark II Van Vista											13011-74070-A		
														13011-74072	
3S-FE 3S-FSE	1,998	Camry Carina Corona											13011-74091		
														13011-74280	
													13011-74080		
													13011-74081		
3S-F 3S-FE	1,998	Ipsum Vista Camry Corona	SWT10119ZZ	4	1st	86.0	1.5	3.25	BF	SR	Cr	Fe	13011-74070		
					2nd	86.0	1.5	3.8	T1	CR	Fe	Fe	13011-74072		
					Oil	86.0	4.0	3.25	NIFF-S	SR	Cr	Fe	13011-74080		
														13011-74081	
												13011-74091			
1AZ-FE 1AZ-FSE	1,998	RAV 4 Corolla Runx Premio Allion Caldina	SWT10186ZZ	4	1st	86.0	1.2	2.7	BF	SR	GN	GN	13011-28120		
					2nd	86.0	1.2	3.1	TUC	CR	Fe	Fe			
					Oil	86.0	2.0	2.5	NIFF-H	SR	GN	GN			
		Wish Avencis Noah			SWT10176ZY	4	1st	86.0	1.2	2.9	BF	SR	GN	GN	13011-28130
							2nd	86.0	1.2	2.9	TUC	SR	GN	GN	
							Oil	86.0	3.0	2.75	NIFF-S	SR	GN	GN	
1TR-FE	1,998	Hi Ace Van Toyo Ace Hi Ace Dyna	SDT10185ZZ	4	1st	86.0	1.2	2.7	BF	SR	GN	GN	13011-75100		
					2nd	86.0	1.2	3.1	TUC	CR	Fe	Fe			
					Oil	86.0	2.0	2.75	E-BC16	SR	GN	GN			
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 Aristo Supra Soarer	SWT10134ZZ	6	1st	86.0	1.5	3.3	BF	SR	GN	GN	13011-46040		
					2nd	86.0	1.5	3.8	TUC	CR	Cr	Fe	13011-46041		
					Oil	86.0	4.0	2.9	NIFF-S	SR	GN	GN	13011-46050		
2JZ-GE 2JZ-GTE	2,997	Lexus GS300 Mark II Chaser Cresta													
1JZ-GE	2,491	Chaser Tourers			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			

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ASIA

CHRYSLER

FORD

G.M.

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- SUBARU
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- HONDA
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- KOMATSU
- MAZDA
- mitsubishi
- NISSAN
- UD TRUCKS
- SUZUKI
- TOYOTA
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- HYUNDAI
- KIA
- ASIA
- CHRYSLER
- FORD
- G.M

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-GTE	2,491		TCC-J-0047	6	1st	86.0	1.2		BF	SR	GN	GN	13011-88410
					2nd	86.0	1.5		T1	CR	Fe	Fe	
					Oil	86.0	4.0		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-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	
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	3.45	T1	CR	Cr	Fe	
					Oil	86.0	2.0	2.75	E-BC16	SR	GN	GN	
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 13011-74290 13011-74260 13011-74300
					2nd	87.0	1.5	3.6	T1	CR	Cr	Fe	
					Oil	87.0	4.0	3.05	NIFF-S	SR	GN	GN	
			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 13011-74370 13011-74410
					2nd	87.0	1.2	3.4	TUC	CR	Fe	Fe	
					Oil	87.0	3.0	2.75	NIFF-S	SR	GN	GN	
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 13011-65021
					2nd	87.5	1.5	3.8	T1	CR	Fe	Fe	
					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 2,496	Camry Lexus ES300 Windom Harrier Mark II	SWT10177ZY	V6	1st	87.5	1.2	2.85	BF	SR	Cr	Fe	13011-20020 13011-20010 13011-20012 13011-20050
					2nd	87.5	1.2	3.4	TUC	CR	Fe	Fe	
					Oil	87.5	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		
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-S	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	SWT10069ZY	4	1st	88.0	2.0	4.2	BF	CR	Cr	Fe	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
16R 16R-B 16R-U	1,808	Corona Carina Corona Van Celica Mark II Stout	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											13011-34030		
													13011-34050	
19R	1,968											13011-38010		
													13011-38020	
20R	2,189													
20R	2,189	Coaster	SJT10063ZZ	4	1st	88.5	2.0	4.2	BF	CR	Cr	Cr	13011-38030	
					2nd	88.5	2.5	4.2	TUC	CR	Cr	Fe		
					Oil 1	88.5	4.0	4.1	E-BC3	CR	Cr	Fe		
					Oil 2	88.5	4.0	4.0	BC3	CR	Cr	Fe		
2AZ-FE 2AZ-FSE	2,362	Harrier Kluger Camry Ipsum Estima RAV 4	SJT10172ZZ	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		

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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	
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
22R 22R-E 22R-EC	2,366	Coaster Celica Corona Hi Lux Hi Ace Land Cruiser	SWT10077ZX	4	1st	92.0	2.0	3.45	BF	SR	Cr	Fe	13011-35010
					2nd	92.0	2.5	4.2	T1	CR	Fe	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
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	
TCC-H-0080	V6	1st	92.0	1.2		BF	SR	GN	GN	13011-20061			
		2nd	92.0	1.2		TUC	CR	Fe	Fe				
		Oil	92.0	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	
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	SWT10049ZZ	6	1st	94.0	2.0	4.2	BF	CR	Cr	Fe	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 Land Cruiser 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	
					Oil	94.0	2.0	2.8	NIFF-H	SR	GN	GN	
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	
2UZ-FE	4,663	Land Cruiser Lexus LX470 Lexus GX470 Hi Lux Surf	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			
SDT10240ZZ (TCC-H-0070)				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	
1UR-FSE 1UR-FFV	4,608	Land Cruiser Lexus GS460 Crown Majesta	SDT10204ZZ	V8	1st	94.0	1.2	2.9	BF-IB	SR	GN	GN	13011-38080
					2nd	94.0	1.2	2.9	TUC	SR	Fe	Fe	13011-38081
					Oil	94.0	2.0	2.75	E-BC16	SR	GN	GN	13011-38090
2UR-FSE	4,968											13011-38110	

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DAIHATSU	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	
SUBARU	1UR-FE	4,608	Lexus LS460 Land Cruiser	SWT10236ZZ (TCC-D-0045)	V8	1st	94.0	1.2	2.9	BF-IB	SR	GN	GN	13011-0S011
						2nd	94.0	1.2	3.4	TUC	CR	Fe	Fe	
						Oil	94.0	2.0	2.8	NIFF-H	SR	GN	GN	
HINO	3UR-FE	5,663	Lexus IS-F Lexus RCF											
HONDA	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	
ISUZU	2RZ	2,438	Hi Ace Wagon	SWT10243ZZ (TCC-H-0078)	4	1st	95.0	1.75	3.3	BF	SR	GN	GN	13011-75030
						2nd	95.0	1.5	3.45	TUC	SR	Cr	Fe	
						Oil	95.0	4.0	3.25	NIFF-S	SR	GN	GN	
KOMATSU	3RZ-FE	2,693	Hi Lux Surf Land Cruiser Prado Toyo Ace Granvia	SWT10139ZZ	4	1st	95.0	1.5	3.5	BF	SR	GN	GN	13011-75040-A
						2nd	95.0	1.5	3.45	TUC	SR	Cr	Fe	
						Oil	95.0	4.0	3.05	NIFF-S	SR	GN	GN	
MAZDA	3RZ-FE	2,693	Hi Lux Surf Land Cruiser Prado Toyo Ace Granvia	TCC-H-0079	4	1st	95.0	1.75		BF	SR	GN	GN	13011-75060
						2nd	95.0	1.5		TUC	SR	Cr	Fe	
						Oil	95.0	4.0		NIFF-S	SR	GN	GN	
MITSUBISHI	2TR-FE	2,693	Hi Lux Surf Land Cruiser Hi Ace Prado	SDT10193ZY	4	1st	95.0	1.2	2.9	BF	SR	GN	GN	13011-75130 13011-75110
						2nd	95.0	1.2	3.4	TUC	CR	Fe	Fe	
						Oil	95.0	2.0	2.75	E-BC16	SR	GN	GN	
NISSAN	2TR-FFV	2,693	Hi Ace Wagon Land Cruiser Prado	SDT10213ZZ	4	1st	95.0	1.2	2.9	BF	SR	GN	GN	13011-75150
						2nd	95.0	1.2	2.9	TUC	SR	Cr	Fe	
						Oil	95.0	2.0	2.75	E-BC16	SR	GN	GN	
UD TRUCKS	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	
SUZUKI	1FZ-FE	4,477	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	
TOYOTA	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	
DAEWOO	1FZ-FE	4,477	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	
HYUNDAI	1FZ-FE	4,477	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	
KIA	1FZ-FE	4,477	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	
ASIA	1FZ-FE	4,477	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	
CHRYSLER	1FZ-FE	4,477	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	
FORD	1FZ-FE	4,477	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	
G.M.	1FZ-FE	4,477	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	