

Series No.	Engine Code	Cyl. No.	Position	Size (mm)			Shape	Material	Surface treatment	Reference
				d1(D)	h1(B)	a1(T)				

## TOYOTA

1	1KR-FE	4	1st	71.00	1.00	2.35	BF-IB	SR	Cr/Ox	13011-40030A
			2nd		1.00	2.30	TUC	SR	Fe	13011-40050
			Oil		1.50	2.30	NIFF-H	SR	Cr/Fe	13011-40051 13011-40052
2	9NR	4	1st	71.50	1.20	2.50	BF-IB	SR	GN	
			2nd		1.20	2.50	T1-RC-UC	SR	Cr/Fe	
			Oil		2.00	2.30	NIFF-H	SR	PVD	
3	2SZ-FE	4	1st	72.00	1.00	2.35	BF-IB	SR	Cr/Ox	13011-23073
			2nd		1.00	2.30	TUC	SR	Fe	
			Oil		1.50	2.30	NIFF-H	SR	Cr/Fe	
4	2E-LU	4	1st	73.00	1.50	2.95	BF	HB	Cr/Fe	13011-11040
			2nd		1.50	3.30	T1-IB	CR	Fe	13011-11041
			Oil		3.00	2.90	NIFF-H	SR	Cr/Fe	13011-11060 13011-11061
5	4E-FE 5E-FE	4	1st	74.00	1.20	2.80	BF	SR	Cr/Ox	13011-11122
			2nd		1.20	3.10	TUC	CR	Fe	13011-11140
			Oil		3.00	2.70	NIFF-S	SR	Cr/Fe	13011-11160
6	1NZ-FE 2NZ-FE	4	1st	75.00	1.20	2.50	BF	SR	GN	13011-21050 13011-21041
			2nd		1.20	2.80	TUC	CR	Fe	
			Oil		2.00	2.50	NIFF-H	SR	GN	
7	1NZ-FXE	4	1st	75.00	0.80	2.50	BF-IB	SR	GN	13011-21100 13011-21130
			2nd		1.00	2.30	TUC	SR	Fe	
			Oil		1.50	2.30	NIFF-H	SR	Cr/Fe	

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8	5A	4	1st	78.70	1.50	2.80	BF	SR	Cr/Ox	13011-15050
			2nd		1.50	3.10	T1	CR	Fe	
			Oil		3.00	2.70	NIFF-S	SR	Cr/Fe	
9	5A-FE 8A-FE	4	1st	78.70	1.20	2.70	BF	SR	GN	13011-15100
			2nd		1.50	3.00	T1	CR	Fe	13011-15120
			Oil		3.00	2.70	NIFF-S	SR	Cr/Fe	13011-15130
10	1ZZ-FE 3ZZ-FE	4	1st	79.00	1.20	2.90	BF-IB	SR	Cr/Ox	13011-22030 13011-22040 13011-22100
			2nd		1.20	3.20	TUC	CR	Fe	13011-22111 13011-22200 13011-22220
			Oil		3.00	2.90	NIFF-S	SR	Cr/Fe	13011-22221 13011-22230 13011-22090 13011-0D010 13011-22140
11	1ZR-FE 2ZR-FE	4	1st	80.50	1.00	2.70	BF	SR	Cr/Ox	13011-37160
			2nd		1.00	2.50	TUC	SR	Fe	13011-37140 13011-37090
			Oil		1.50	2.30	NIFF-H	SR	Cr/Fe	13011-37130
12	4A-FE 7A-FE	4	1st	81.00	1.20	2.90	BF-IB	SR	Cr/Ox	13011-16280
			2nd		1.50	3.40	T1	CR	Fe	13011-16290 13011-16300
			Oil		3.00	2.80	NIFF-S	SR	GN	13011-16320
13	4S	4	1st	82.50	1.50	3.10	BF	SR	Cr/Ox	13011-74110-1
			2nd		1.50	3.70	T1	CR	Fe	13011-74120-1
			Oil		4.00	2.90	NIFF-S	SR	GN	13011-74121-1
14	3S-FE	4	1st	86.00	1.20	3.10	BF	SR	Cr/Ox	13011-74340
			2nd		1.20	3.40	T1	CR	Fe	
			Oil		3.00	2.80	NIFF-S	SR	Cr/Fe	
15	1Y 2Y 3Y 3S-FE 3S-FSE	4	1st	86.00	1.50	3.50	BF	SR	Cr/Ox	13011-71010 13011-71020 13011-71030
			2nd		1.50	3.90	T1	CR	Fe	13011-72020 13011-74070-A 13011-74072
			Oil		4.00	3.25	NIFF-S	SR	Cr/Fe	13011-74091 13011-74280 13011-74080 13011-74081

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16	3Y	4	1st	86.00	1.50	3.50	BF	SR	GN	
			2nd		1.50	4.00	T1	CR	Cr/Fe	
			Oil		4.00	3.40	NIFF-S	SR	Cr/Fe	
17	1AZ-FE 1AZ-FSE	4	1st	86.00	1.20	2.75	BF	SR	Cr/Ox	13011-28120
			2nd		1.20	3.15	TUC	CR	Fe	
			Oil		2.00	2.55	NIFF-H	SR	PVD	
18	4U-GSE	4	1st	86.00	1.20	2.70	BF	SR	GN	SU003-00145
			2nd		1.00	2.75	TUC	SR	Cr/Ox	
			Oil		2.00	2.55	NIFF-H	SR	PVD	
19	8AR-FES	4	1st	86.00	1.50	3.15	BF	SR	GN	
			2nd		1.20	3.25	TUC	SR	Cr/Ox	
			Oil		2.00	2.55	NIFF-H	SR	PVD	
20	3GR 3GR-D4 3GR-FE 3GR-FSE 5GR	6	1st	87.50	1.20	2.70	BF	SR	GN	13011-31170 13011-31171
			2nd		1.20	2.70	TUC	SR	Ox	
			Oil		2.00	2.00 (2.80)	BC16-S	SR	GN	
21	3GR 3GR-D4 3GR-FE 3GR-FSE 5GR	6	1st	87.50	1.20	2.70	BF	SR	GN	
			2nd		1.20	2.70	TUC	SR	Ox	
			Oil		2.00	2.60	NIFF-H	SR	GN	
22	2AZ-FE 2AZ-FSE	4	1st	88.50	1.00	2.80	BF	SR	GN	13011-28160 13011-28161 13011-28190 13011-0H040 13011-0H041 13011-28240
			2nd		1.00	2.70	TUC	SR	Fe	
			Oil		2.00	2.00 (2.80)	BC16-S	SR	GN	

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23	2AZ-FE	4	1st	88.50	1.00	2.70	BF	SR	Cr/Ox	
			2nd		1.00	2.70	TUC	SR	Fe	
			Oil		2.00	2.45	NIFF-H	SR	Cr/Fe	
24	1AR-FE 2AR-FE 2AR-FSE	4	1st	90.00	1.00	2.90	BF	SR	GN	13011-36020 13011-36020-A 13011-36030 13011-36050 13011-36060 13011-36070
	2nd		1.00		2.70	TUC	SR	Fe		
	Oil		2.00		2.00 (2.80)	BC16-S	SR	GN		
25	1AR-FE	4	1st	90.00	1.00	2.90	BF	SR	GN	
			2nd		1.00	2.70	TUC	SR	Fe	
			Oil		2.00	2.60	NIFF-H	SR	Cr/Fe	
26	4Y	4	1st	91.00	1.50	3.50	BF	SR	GN	13011-73020 13011-73030 13011-73040 13011-73042
			2nd		1.50	4.00	T1	CR	Cr/Fe	
			Oil		4.00	3.30	NIFF-S	SR	Cr/Fe	
27	2KD	4	1st	92.00	2.00	2.90	BF	SR	GN	13011-30030 13011-30031 13011-30060
			2nd		1.50	2.90	T1	SR	GN	
			Oil		3.00	2.00 (3.00)	BC16-S	SR	GN	
28	2L-T 2L-TE	4	1st	92.00	2.00	3.40	BF-K2	SR	GN	13011-54050 13011-54060 13011-54061 13011-54100
	2nd		2.00		3.75	T1	SR	Cr/Ox		
	Oil		4.00		2.40 (4.15)	BC16-S	SR	GN		
29	1HZ	4	1st	94.00	2.00	3.55	BF-K2	SR	GN	13011-17010 13011-17011 13011-17020 13011-17030
			2nd		2.00	4.00	T1	CR	Cr/Fe	
			Oil		4.00	2.35 (4.20)	BC16-S	SR	GN	
30	1GR-FE	6	1st	94.00	1.20	3.25	BF-IB	SR	GN	13011-31100
			2nd		1.20	3.45	TUC	CR	Fe	
			Oil		2.00	2.80	NIFF-H	SR	PVD	

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31	2GR-FE 2GR-FSE	6	1st	94.00	1.20	2.90	BF	SR	GN	13011-31140 13011-31141
			2nd		1.20	2.90	TUC	SR	OX	
			Oil		2.00	2.80	NIFF-H	SR	PVD	
32	2RZ	4	1st	95.00	1.75	3.55	BF	SR	GN	13011-75060 13011-75030
			2nd		1.50	3.55	T1	HB	Cr/Fe	
			Oil		4.00	2.80	NIFF-S	SR	GN	
33	3RZ-FE	4	1st	95.00	1.50	3.35	BF	SR	GN	13011-75040-A
			2nd		1.50	3.55	TUC	HB	Cr/Fe	
			Oil		4.00	2.80	NIFF-S	SR	GN	
34	2TR-FE	4	1st	95.00	1.20	2.90	BF	SR	GN	13011-75130 13011-75110
			2nd		1.20	3.40	TUC	CR	Fe	
			Oil		2.00	2.00 (2.75)	BC16-S	SR	GN	
35	3L	4	1st	96.00	2.00	3.40	BF-K2	SR	GN	13011-54120
			2nd		2.00	3.75	T1	SR	Cr/Ox	
			Oil		4.00	2.40 (4.15)	BC16-S	SR	GN	
36	1KD-FTV	4	1st	96.00	2.00	3.40	BF-K2	SR	GN	13011-30020 13011-30021 13011-30022 13011-30040 13011-30050 13011-30051
			2nd		1.50	3.40	T1	SR	GN	
			Oil		3.00	2.35 (3.35)	BC16-S	SR	GN	
37	1KZ-TE	4	1st	96.00	2.00	3.40	BF-K2	SR	GN	13011-67030
			2nd		2.00	3.60	TUC	HB	Cr/Fe	
			Oil		3.00	2.30 (3.20)	BC16-S	SR	GN	

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38	5L 5L-E	4	1st	99.50	2.00	3.55	BF-K2	SR	GN	13011-54130
			2nd		1.50	3.30	TUC	SR	GN	
			Oil		4.00	2.40 (4.15)	BC16-S	SR	GN	
39	14B	4	1st	102.00	2.50	3.90	BF-K2	HB	Cr/Fe	13011-58050
			2nd		2.00	4.30	T1	CR	Cr/Fe	13011-58070
			Oil		4.00	2.40 (4.05)	BC16-S	SR	GN	13011-58072

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