

2TR-FE LUBRICATION**SERVICE DATA**

Oil pressure		at idle speed	29 kPa (0.3 kgf/cm ² , 4.3 psi) or more
		at 3,000 rpm	160 to 490 kPa (1.6 to 5.3 kgf/cm ² , 23 to 75 psi)
Oil pump	Tip clearance	STD	0.040 to 0.160 mm (0.0016 to 0.0063 in.)
		Minimum	0.26 mm (0.0102 in.)
	Side clearance	STD	0.025 to 0.075 mm (0.0010 to 0.0030 in.)
		Minimum	0.130 mm (0.0051 in.)
	Body clearance	STD	0.250 to 0.325 mm (0.0098 to 0.0128 in.)
		Minimum	0.425 mm (0.0167 in.)

SS

TORQUE SPECIFICATIONS

Part Tightened		N*m	kgf*cm	ft.*lbf
Oil pressure switch x Cylinder block sub-assembly		15	153	11
Oil pan drain plug x Oil pan sub-assembly No. 2		38	382	28
Timing chain cover x Head straight screw plug		17	170	12
Timing chain cover x Cylinder head sub-assembly and Cylinder block sub-assembly	Bolt A	46	469	34
	Bolt B	21	214	15
	Bolt C	21	214	15
	Bolt D	21	214	15
	Bolt E	21	214	15
	Nut	21	214	15
Air cleaner case x Body		12	122	9
Engine under cover No. 1 x Body		30	306	22
Engine under cover No. 2 x Body		30	306	22
Oil pump cover x Timing chain cover		9.0	92	80 in.*lbf
Oil pump relief valve x Timing chain cover		49	500	36

SS