

SPECIFICATIONS 1GR-FE LUBRICATION SERVICE DATA

ENGINE OIL PRESSURE

Condition	Specified Condition
Idle	29 kPa (0.3 kgf/cm ² , 4.2 psi) or higher
3000 rpm	294 to 588 kPa (3.0 to 6.0 kgf/cm ² , 43 to 85 psi)

STANDARD OIL GRADE

Oil Grade	Oil Viscosity (SAE)
API grade SL "Energy-Conserving", API grade SM "Energy-Conserving", API grade SN "Resource-Conserving" or ILSAC multigrade engine oil	- 5W-30 - 10W-30
API grade SL, SM or SN multigrade engine oil	- 15W-40 - 20W-50

STANDARD OIL CAPACITY

Item	Specified Condition
Drain and refill without oil filter change	5.1 liters (5.4 US qts, 4.5 Imp. qts)
Drain and refill with oil filter change	5.4 liters (5.7 US qts, 4.8 Imp. qts)
Dry fill	6.4 liters (6.7 US qts, 5.6 Imp. qts)

OIL PUMP

Driven rotor and Drive rotor	Standard tip clearance	0.06 to 0.16 mm (0.00236 to 0.00630 in.)
	Maximum tip clearance	0.16 mm (0.00630 in.)
	Standard side clearance	0.03 to 0.09 mm (0.00118 to 0.00354 in.)
	Maximum side clearance	0.09 mm (0.00354 in.)
	Standard body clearance	0.250 to 0.325 mm (0.00984 to 0.0128 in.)
	Maximum body clearance	0.325 mm (0.0128 in.)