

LUBRICATION

SERVICE DATA

030PC-01

1ZZ-FE:

Oil pressure	at idle speed at 3,000 r/min	29 kPa (0.3 kgf·cm ² , 4.2 psi) or more 294 – 539 kPa (3.0 – 5.5 kgf·cm ² , 43 – 78 psi) or more
Adhesive		Part No. 08833 – 00080, THREE BOND 1344, LOCTITE 242, or equivalent
Engine oil Capacity	Drain and refill w/ oil filter change Drain and refill w/o oil filter change Dry fill	3.7 liters (3.9 US qts, 3.3 Imp. qts) 3.5 liters (3.7 US qts, 3.1 Imp. qts) 4.2 liters (4.4 US qts, 3.7 Imp. qts)
Oil pump assy Tip clearance Body clearance Side clearance		0.040 – 0.160 mm (0.0016 – 0.0063 in.) 0.260 – 0.325 mm (0.0102 – 0.0128 in.) 0.025 – 0.071 mm (0.0010 – 0.0028 in.)

2ZZ-GE:

Oil pressure	at idle speed at 3,000 r/min	19.2 kPa (0.2 kgf·cm ² , 2.8 psi) or more 294 – 539 kPa (3.0 – 5.5 kgf·cm ² , 43 – 78 psi) or more
Adhesive		Part No. 08833 – 00080, THREE BOND 1344, LOCTITE 242, or equivalent
Engine oil Capacity	Drain and refill w/ oil filter change Drain and refill w/o oil filter change Dry fill	4.4 liters (4.7 US qts, 3.9 Imp. qts) 4.2 liters (4.4 US qts, 3.7 Imp. qts) 4.8 liters (5.1 US qts, 4.2 Imp. qts)
Oil pump assy Tip clearance	Standard Maximum	0.060 – 0.180 mm (0.0024 – 0.0071 in.) 0.35 mm (0.0138 in.)
Body clearance	Standard Maximum	0.125 – 0.180 mm (0.0049 – 0.0071 in.) 0.325 mm (0.0128 in.)
Side clearance	Standard Maximum	0.030 – 0.080 mm (0.0012 – 0.0032 in.) 0.16 mm (0.0063 in.)