

1NZ-FE LUBRICATION**SERVICE DATA**

Oil pressure : at idle	29 kPa (0.3 kgf/cm ² , 4.2 psi) or more
Oil pressure : at 3,000 rpm	150 to 550 kPa (1.5 to 5.6 kgf/cm ² , 22 to 80 psi) or more
Oil pump : Tip clearance	Standard: 0.060 to 0.180 mm (0.0024 to 0.0071 in.) Maximum: 0.28 mm (0.0110 in.)
Oil pump : Body clearance	Standard: 0.250 to 0.325 mm (0.0098 to 0.0128 in.) Maximum: 0.425 mm (0.0167 in.)
Oil pump : Side clearance	Standard: 0.03 to 0.09 mm (0.0012 to 0.0035 in.) Maximum: 0.15 mm (0.0059 in.)

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TORQUE SPECIFICATIONS

Part tightened	N*m	kgf*cm	ft.*lbf
Oil pressure switch x Cylinder block	15	153	11
Oil filter x Oil filter union	17.2	175	13
Oil pump cover x Timing chain cover : for bolt	8.8	90	78 in.*lbf
Oil pump cover x Timing chain cover : for nut	10	102	7.6
Oil pump relief valve plug x Timing chain cover	25	255	18
Timing chain cover x Cylinder head and cylinder block : for bolt A	24	245	18
Timing chain cover x Cylinder head and cylinder block : for bolt B	11	112	8.1
Timing chain cover x Cylinder head and cylinder block : for bolt C	11	112	8.1
Timing chain cover x Cylinder head and cylinder block : for bolt D	24	245	18
Timing chain cover x Cylinder head and cylinder block : for nut E	24	245	18
Oil pan drain plug x No. 2 oil pan	37.5	382	28

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