

TORQUE VALUES

Engine oil drain plug

Engine oil filter

Right main oil gallery plug

Oil cooler elbow socket bolt

30-40 N·m (3.0-4.0 kg·m, 22-29 ft-lb)

15-20 N:m (1.5-2.0 kg-m, 11-14 ft-lb) - Apply engine oil to the O-ring

25-35 N·m (2.5-3.5 kg-m, 18-25 ft-lb) - Apply 3-BOND® No. 1211 or its

equivalent to the bolt threads

10-15 N·m (1.0-1.5 kg-m, 7-11 ft-lb)

TOOLS

Special

Oil pressure gauge

Oil pressure gauge attachment

Oil filter wrench

07506-3000000 or commercially available

07510-MJ10100

07912-MB00000

Common

Extension bar

07716-0020500 or commercially available

TROUBLESHOOTING

Oil level too low - high oil consumption

- 1. External oil leaks
- 2. Worn piston rings
- 3. Worn valve guide or seal

Econtamination

- T. Oil or filter not changed often enough
- 2. Head gasket faulty
- 3. Worn piston rings

Low oil pressure

- 1. Oil level low
- 2. Pressure relief valve stuck open
- 3. Plugged oil pick-up screen
- 4. Oil pump worn
- 5. External oil leaks

High oil pressure

- 1. Pressure relief valve stuck closed
- 2. Plugged oil filter, gallery, or metering orifice
- 3. Incorrect oil being used

No oil pressure

- 1. Oil level low
- 2. Oil pump drive gear broken
- 3. Oil pump faulty
- Internal oil leakage