

LUBRICATION

TORQUE VALUES

Engine oil drain plug	30–40 N·m (3.0–4.0 kg·m, 22–29 ft·lb)
Engine oil filter	15–20 N·m (1.5–2.0 kg·m, 11–14 ft·lb)
Oil pressure switch	10–14 N·m (1.0–1.4 kg·m, 7–10 ft·lb) – Apply 3-BOND® No. 1211 or its equivalent to the bolt threads.
Oil pump	8–12 N·m (0.8–1.2 kg·m, 6–9 ft·lb)
Oil pump driven sprocket	8–12 N·m (0.8–1.2 kg·m, 6–9 ft·lb)

TOOLS

Special

Oil pressure gauge	07506–3000000	— or commercially available.
Oil pressure gauge attachment	07510–4220100	
Oil filter wrench	07912–MB00000	

TROUBLESHOOTING

Oil level too low – high oil consumption

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

Oil contamination

1. 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 open.
2. Plugged oil filter, gallery, or metering orifice.
3. Incorrect oil being used.

No oil pressure

1. Oil level low.
2. Oil pump drive chain broken.
3. Oil pump faulty.
4. Internal oil leakage.