

# LUBRICATION SYSTEM

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## TORQUE VALUES

Oil drain bolt	29 N·m (3.0 kgf·m , 22 lbf·ft)	
Oil pump cover bolt	8 N·m (0.8 kgf·m , 5.8 lbf·ft)	CT bolt
Oil pump driven sprocket bolt	15 N·m (1.5 kgf·m , 11 lbf·ft)	Apply a locking agent to the threads
Oil filter cartridge	10 N·m (1.0 kgf·m , 7 lbf·ft)	Apply clean engine oil to the O-ring

## TOOLS

Oil pressure gauge	07506-3000000
Oil pressure gauge attachment	07406-0030000
Oil filter wrench	07HAA-PJ70100

## TROUBLESHOOTING

### Engine oil level too low

- Oil consumption
- External oil leak
- Worn piston ring or incorrect piston ring installation
- Worn valve guide or seal

### Low or no oil pressure

- Clogged oil orifice
- Incorrect oil being used

### No oil pressure

- Oil level too low
- Oil pump drive sprocket broken
- Oil pump damaged (pump shaft)
- Internal oil leak

### Low oil pressure

- Clogged oil strainer screen
- Oil pump worn or damaged
- Internal oil leak
- Incorrect oil being used
- Low oil level

### High oil pressure

- Plugged oil filter, gallery, or metering orifice
- Incorrect oil being used