

g00280752

Engine Oil Pump

SMCS Code: 130-4

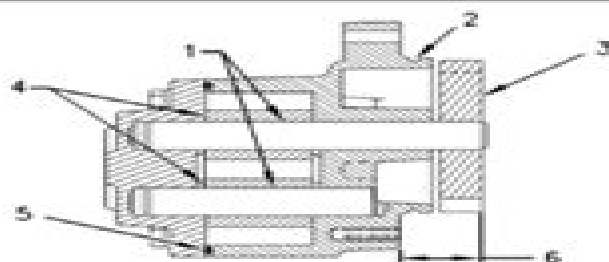


Illustration 54

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NOTICE

Before operating the engine, the oil pump must be lubricated with clean engine oil. The oil pump must turn freely by hand. Damage to the drive gear and internal pump damage can occur if the oil pump is not lubricated with clean engine oil.

Engine oil pump

Oil type SAE 30
Oil temperature 50°C (122°F)
Pump speed 3000 rpm
Oil pressure 359 kPa (52 psi)
Minimum oil flow 185 L/min (49 US gpm)

(1) Diameter of two shafts 18.000 ± 0.005 mm
(.7087 ± .0002 inch)

Bores in pump body for two
shafts 18.050 ± 0.010 mm (.7106 ± .0004 inch)

(2) Seal groove

Prior to installation, lubricate the bore in the engine front cover. This will allow the seal groove and the seal to slide.

(3) Drive gear

In order to install the drive gear, heat the drive gear to the following temperature. 316 °C
(600 °F)

(4) Pump gears

In order to install the pump gears, heat the pump gears to the following temperature. 316 °C
(600 °F)

Length of new gears 50.000 ± 0.025 mm
(1.9685 ± .0010 inch)

Depth of bores in pump body for the
gears 50.13 ± 0.02 mm (1.974 ± .001 inch)

(5) Seal

(6) Distance between front face of gear and
housing ... 29.40 ± 0.50 mm (1.158 ± .020 inch)

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Engine Oil Pressure

SMCS Code: 192-4

Operate the engine in order to achieve the normal operating temperature. When the engine has achieved the normal operating temperature, the engine oil temperature should be no greater than 110°C (230°F). The engine oil temperature should be measured after the engine oil has passed through the engine oil cooler.

Check the engine oil pressure in the oil gallery that is located on the right side of the cylinder block.

Engine oil pressure under full load conditions (1400 rpm to 1800 rpm) 275 to 414 kPa (40 to 60 psi)

Minimum engine oil pressure at low idle (600 rpm to 800 rpm) 68 kPa (10 psi)

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Engine Oil Pan

SMCS Code: 130-2

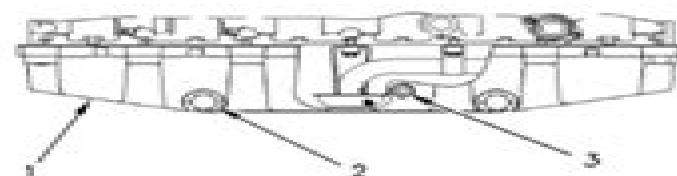


Illustration 55

Center Sump

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(1) Oil pan

Cat C12 Air Service Manual

Doris V. Sweet



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