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## Engine Oil Pump

**SMCS Code:** 130-4

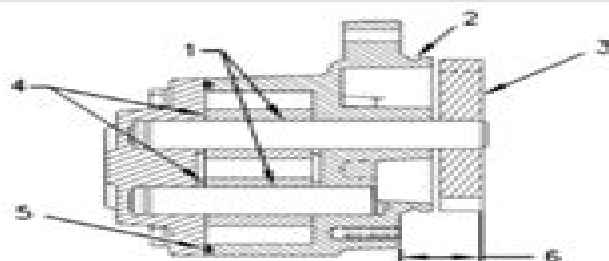


Illustration 54

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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)

g00217005

## 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

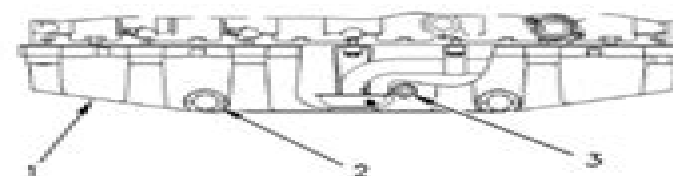


Illustration 55

Center Sump

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(1) Oil pan

# Cat C12 Air Service Manual

**Jianjun Gao**



## **Cat C12 Air Service Manual:**

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In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Cat C12 Air Service Manual**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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