



# Service Repair Manual

## **Models**

# 312 EXCAVATOR

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Product: EXCAVATOR

Model: 312-A EXCAVATOR 6GK

Configuration: 312 TRACK-TYPE EXCAVATOR 6GK00001-UP (MACHINE) POWERED BY 3064 ENGINE

## Disassembly and Assembly 3064 and 3066 Engines for Caterpillar Built Machines

Media Number -SEN5553-10

Publication Date -01/05/2012

Date Updated -15/05/2012

i01565969

# Engine Oil Filter Base - Install

SMCS - 1306-012

## Installation Procedure

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### NOTICE

**Keep all parts clean from contaminants.**

**Contaminants may cause rapid wear and shortened component life.**

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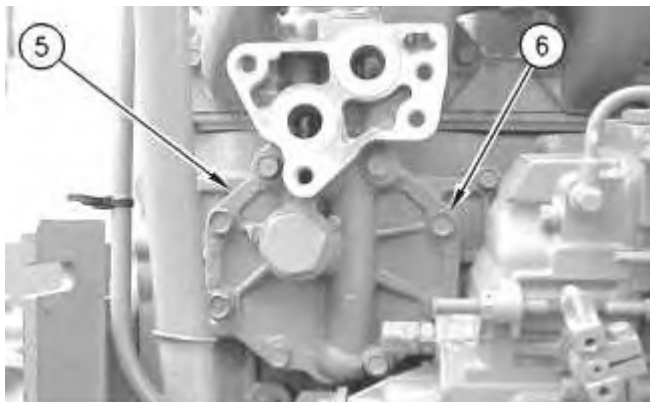


Illustration 1

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1. Secure gasket and plate (5) to the cylinder block with eight bolts (6) .
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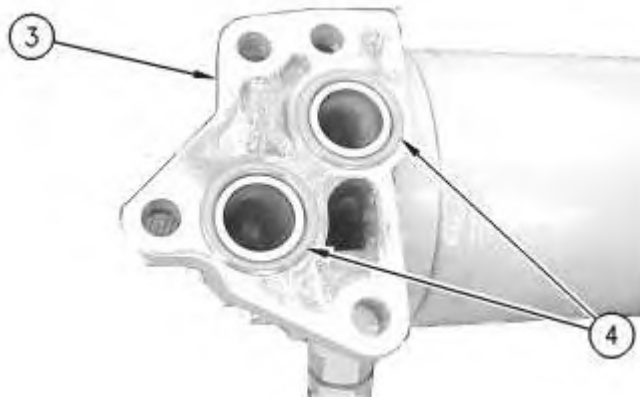


Illustration 2

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2. Check the condition of O-ring seals (4). Replace the O-ring seals, if the O-ring seals are damaged.

**Note:** Coat all of the O-ring seals with clean engine oil prior to installation.

3. Install the O-ring seals (4) on engine oil filter base (3) .

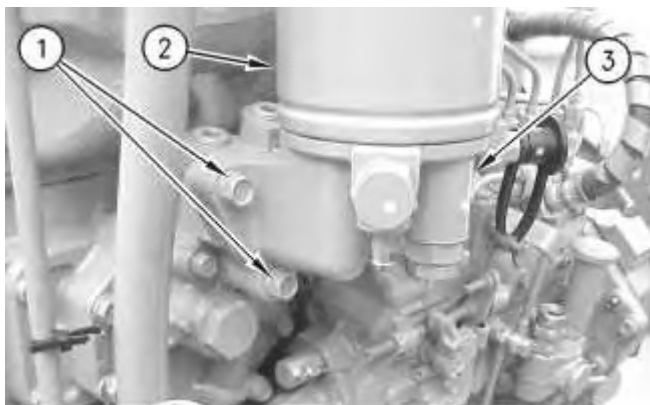


Illustration 3

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4. Secure engine oil filter base (3) to the plate (5) with four bolts (1) and the washers.
5. Install the engine oil filter (2) to the engine oil filter base (3) .

**Note:** Follow the installation procedure on the engine oil filter in order to install the engine oil filter on the engine oil filter base.

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i01615275

# **Engine Oil Cooler - Remove**

SMCS - 1378-011

## **Removal Procedure**

### **Start By:**

- A. Remove the fuel injection pump. Refer to Disassembly and Assembly, "Fuel Injection Pump - Remove".

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### **NOTICE**

**Keep all parts clean from contaminants.**

**Contaminants may cause rapid wear and shortened component life.**

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### **NOTICE**

**Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.**

**Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.**

**Dispose of all fluids according to local regulations and mandates.**

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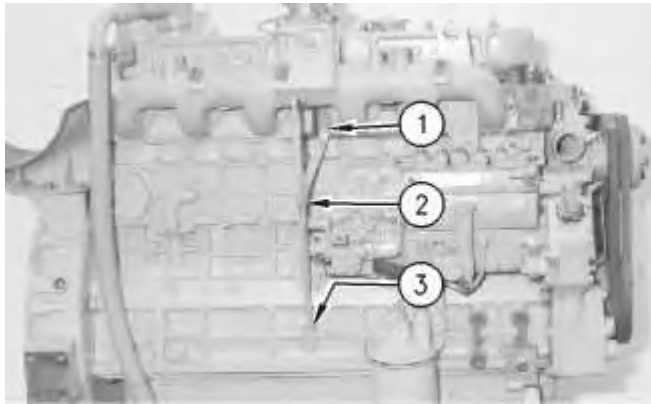


Illustration 1

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1. If necessary, remove bolt (1) and the washer from the cylinder head.
2. Remove oil tube assembly (dipstick) (2) from the cylinder block.
3. Check O-ring seal (3) (not shown) for wear or damage. Replace the O-ring seal, if the O-ring seal is worn or damaged.



Illustration 2

g00611320

4. Remove bolts (4) and the washers that secure the oil cooler to the engine cylinder block. The 3066 Engine has 24 bolts and washers while the 3064 Engine has 16 bolts and washers.
5. Remove engine oil cooler (5) and gasket (6) (not shown) from the engine cylinder block. Check the gasket for wear or damage. Replace the gasket, if the gasket is worn or damaged.

**Note:** Check the oil cooler cover for cracks. Replace the cover, if the cover is cracked.

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