



# Service Repair Manual

## **Models**

# 312B EXCAVATOR

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Product: EXCAVATOR  
Model: 312B EXCAVATOR 9HR  
Configuration: ISJ HEX COMMONALITY CHART 9HR00001-UP (MACHINE)

## 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

i01565892

## Engine Oil Filter Base - Remove

SMCS - 1306-011

### Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	185-3630	Strap Wrench Assembly	1



### WARNING

Hot oil and components can cause personal injury.

Do not allow hot oil or components to contact skin.

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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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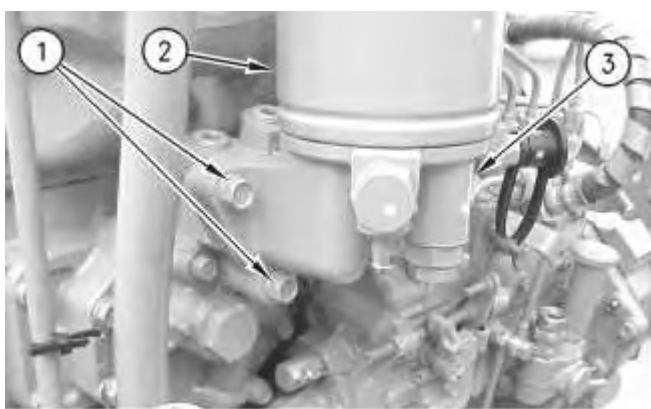


Illustration 1

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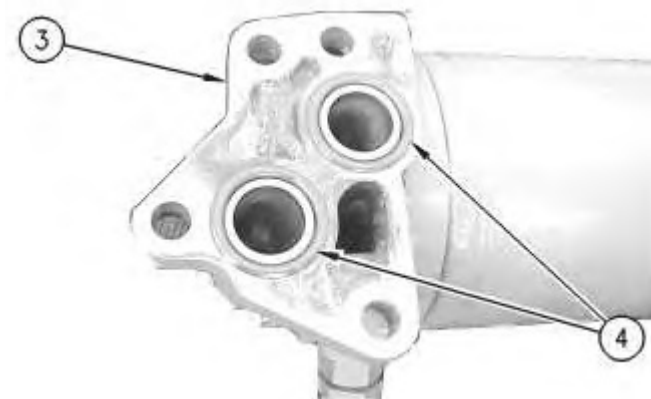


Illustration 2

g00813789

1. Use Tool (A) and remove oil filter (2) from engine oil filter base (3) .
2. Remove the bolts (1) and washers from the engine oil filter base (3) .
3. Remove engine oil filter base (3) from the engine.

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

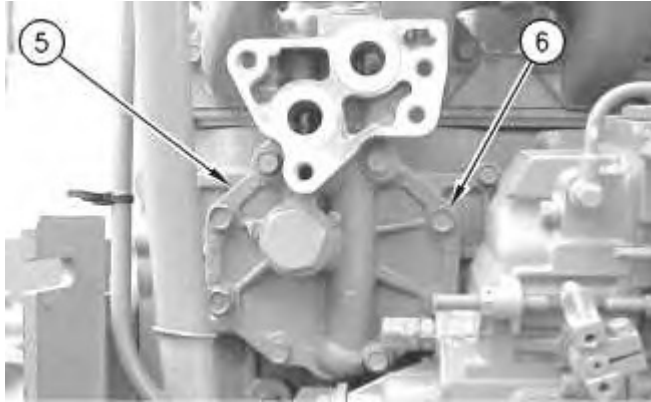


Illustration 3

g00813823

5. If necessary, remove eight bolts (6) and the washers in order to remove plate (5) from the engine.
6. Check the condition of gasket (not shown). Replace the gasket, if the gasket is worn or damaged.
7. Check engine oil filter base (3) and plate (5) for clogging and cracks. Replace damaged components with replacement parts.

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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.**

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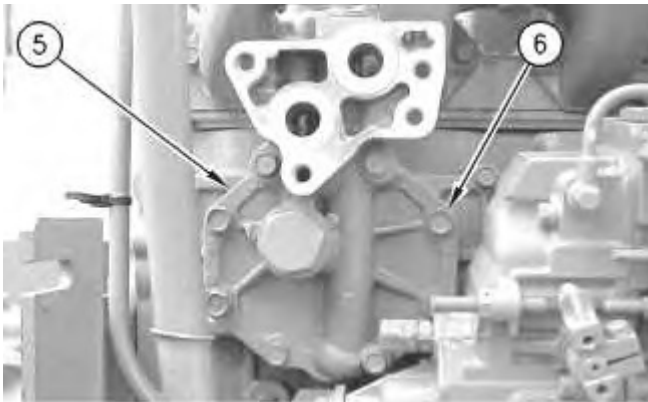


Illustration 1

g00813823

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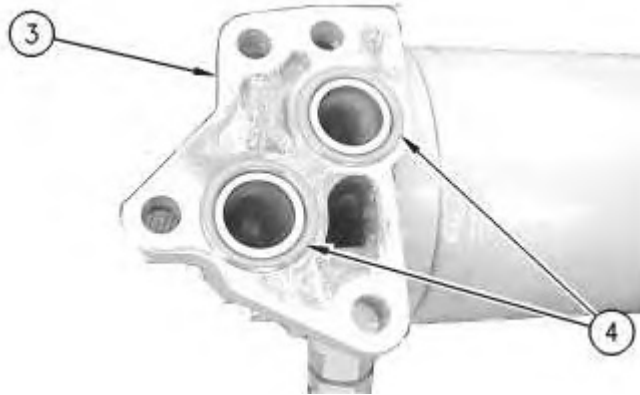


Illustration 2

g00813789

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) .

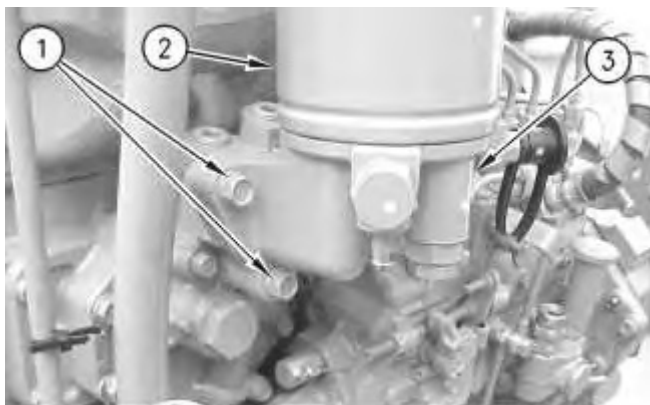


Illustration 3

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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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## **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

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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