

Product: EXCAVATOR

Model: 329D LN EXCAVATOR EBM

Configuration: 329D L & 329D LN Excavators EBM00001-UP (MACHINE) POWERED BY C7 Engine

Disassembly and Assembly

C7

Engines for Caterpillar Built Machines

Media Number -REN9218-13

Publication Date -01/06/2014

Date Updated -04/06/2014

i05954439

Engine Oil Pan - Remove and Install

SMCS - 1302-010

Removal Procedure

Start By:

- A. Remove the engine.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

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, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat products.

Dispose of all fluids according to local regulations and mandates.

1. Drain the engine oil into a suitable container for storage or disposal. Refer to Operation and Maintenance Manual, "Engine Oil and Filter - Change" for the correct draining and filling procedures.

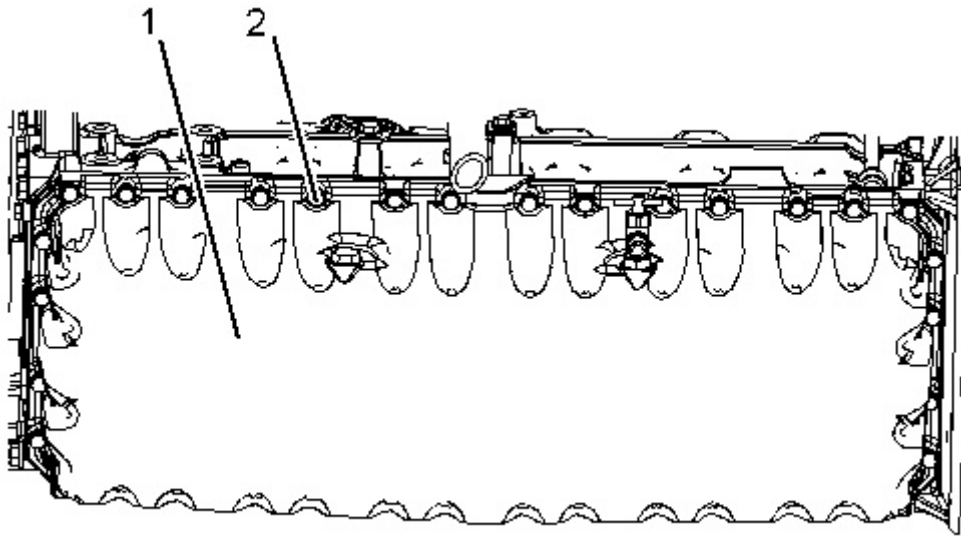


Illustration 1

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Note: Do not pry or gouge the sealing surface of the engine oil pan. Use a rubber mallet to tap lightly on the engine oil pan, if necessary.

2. Remove bolts (2) . Remove engine oil pan (1) and the gasket.

Installation Procedure

Table 1

Tool	Part number	Part Description	Qty
A	-	Loctite 598	1

NOTICE

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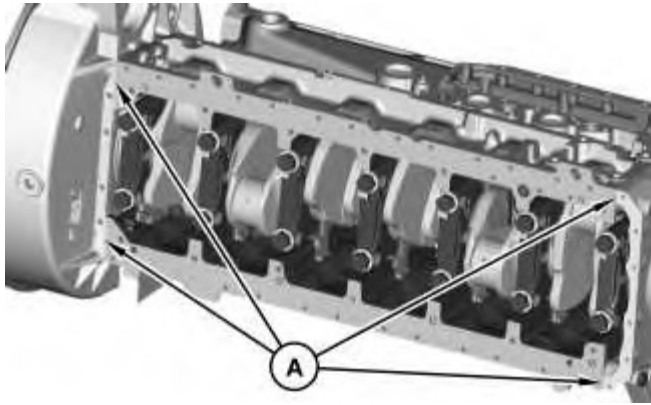


Illustration 2

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1. Apply a bead of Tooling (A) to the areas shown in Illustration 2.

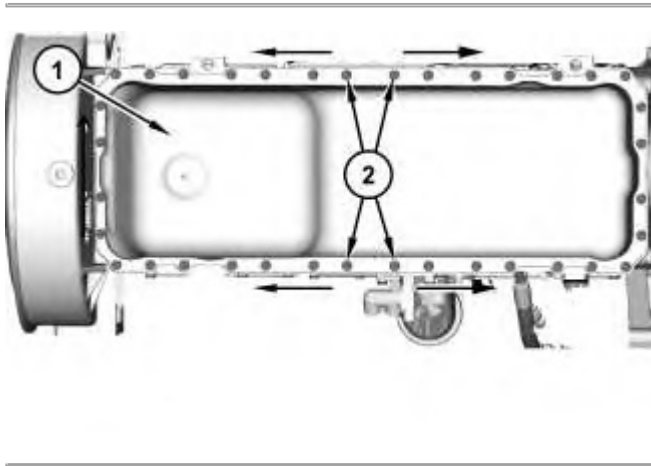


Illustration 3

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2. Position a new gasket and engine oil pan (1) on the cylinder block.
3. Install bolts (2) .
4. Tighten bolts (2) to a torque of $31 \pm 3 \text{ N}\cdot\text{m}$ ($23 \pm 2 \text{ lb ft}$). Tighten the four bolts (2) in the center and move outward in the direction shown in Illustration 3.
5. Repeat Step 4.
1. Fill the engine with engine oil to the correct level. Refer to Operation and Maintenance Manual, "Engine Oil and Filter - Change" for the correct draining and filling procedures.

End By: Install the engine.

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