



# Service Repair Manual

## **Model**

438D BACKHOE LOADER

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Product: BACKHOE LOADER

Model: 438D BACKHOE LOADER BPE

Configuration: 438D Backhoe Loader BPE00664-00742 (MACHINE) POWERED BY 3054 Engine

## Disassembly and Assembly

### 416D, 420D, 424D, 428D, 430D, 432D, 438D and 442D Backhoe Loaders Machine Systems

Media Number -REN3585-11

Publication Date -01/09/2009

Date Updated -28/09/2009

i01442986

## Hydraulic Tank - Remove

SMCS - 5056-011

### Removal Procedure

#### Start By:

- A. Remove the cab. Refer to Disassembly and Assembly, "Cab - Remove".



**Personal injury can result from hydraulic oil pressure and hot oil.**

**Hydraulic oil pressure can remain in the hydraulic system after the engine has been stopped. Serious injury can be caused if this pressure is not released before any service is done on the hydraulic system.**

**Make sure all of the attachments have been lowered, oil is cool before removing any components or lines. Remove the oil filler cap only when the engine is stopped, and the filler cap is cool enough to touch with your bare hand.**

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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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**Note:** Put identification marks on all lines, on all hoses, on all wires, and on all tubes for installation purposes. Plug all lines, all hoses and all tubes. This helps to prevent fluid loss and this helps to keep contaminants from entering the system.

1. Drain the hydraulic oil into a suitable container. The capacity of the hydraulic tank is 38 L (10 US gal).

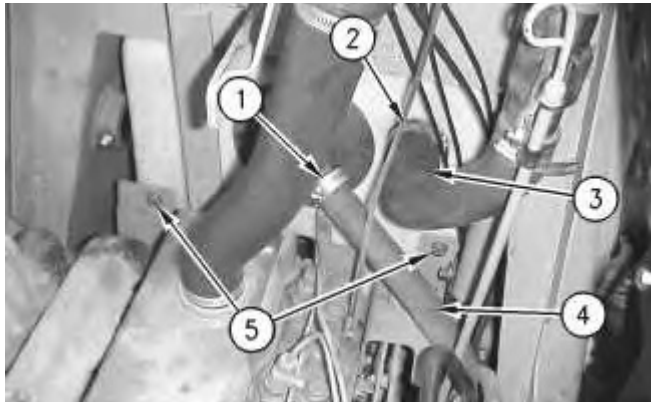


Illustration 1

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2. Loosen clamp (1) and (2). Disconnect hose (3) and (4) .
3. Remove four bolts (5) .

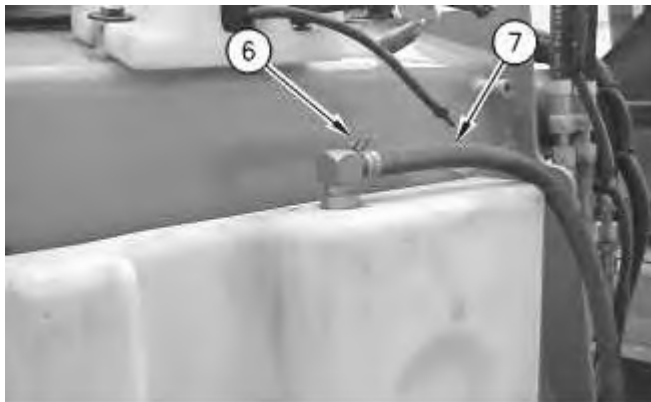


Illustration 2

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4. Loosen clamp (6) and disconnect hose (7) .

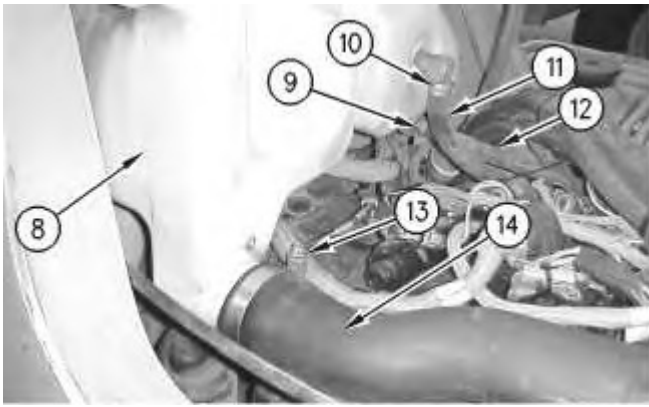


Illustration 3

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5. Loosen clamps (9) and (10). Disconnect hoses (11) and (12). Loosen clamp (13) and disconnect hose (14) .

6. Remove the hydraulic tank assembly (8) .

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Media Number -REN3585-11

Publication Date -01/09/2009

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## Hydraulic Tank - Disassemble

SMCS - 5056-015

### Disassembly Procedure

#### Start By:

- A. Remove the hydraulic tank. Refer to Disassembly and Assembly, "Hydraulic Tank - Remove".



**Personal injury can result from hydraulic oil pressure and hot oil.**

**Hydraulic oil pressure can remain in the hydraulic system after the engine has been stopped. Serious injury can be caused if this pressure is not released before any service is done on the hydraulic system.**

**Make sure all of the attachments have been lowered, oil is cool before removing any components or lines. Remove the oil filler cap only when the engine is stopped, and the filler cap is cool enough to touch with your bare hand.**

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#### NOTICE

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