



# Service Repair Manual

## **Model**

438C BACKHOE LOADER

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Product: BACKHOE LOADER

Model: 438C BACKHOE LOADER 1TR

Configuration: 438C Backhoe Loader Side Shift, Parallel Lift 1TR00001-01283 (MACHINE) POWERED BY 3054 Engine

## Disassembly and Assembly

### 416C, 426C, 428C, 436C, & 438C BACKHOE LOADERS POWER TRAIN

Media Number -SEN1206-02

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SEN12060009

## Final Drive And Axle Housing (Rear) (All Wheel Steer)

SMCS - 4050-015; 4050-016

## Disassemble Final Drive And Axle Housing (Rear) (All Wheel Steer)

Tools Needed		A	B	C	D	E
1P-2420	Repair Stand	1				
8B-7554	Two Leg Puller		1			
127-9304	Spanner			1		
1U-6415	Three Leg Puller				1	
1P-2325	Puller Head					1
8H-0700	Puller Straps					4
5F-7373	Puller Jaw legs					2
1P-2326	Screw					1

## Fluid Spillage Containment

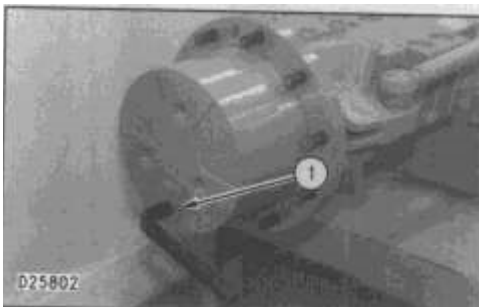
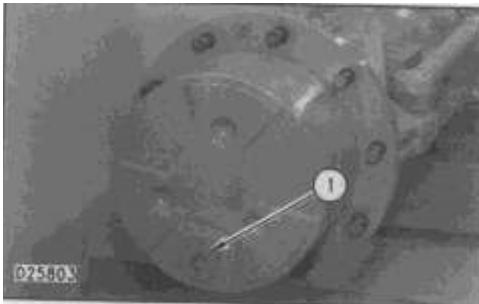
Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the machine. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids. Refer to "Tools And Shop Products Guide", NENG2500 for tools and supplies suitable to collect and contain fluids in Caterpillar machines. Dispose fluids according to local regulations and mandates.

**NOTE:** For photographic purposes, the all wheel steer axle has been removed from the machine.

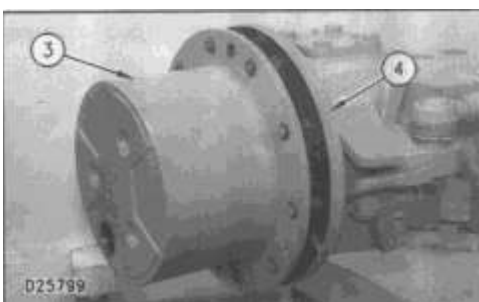
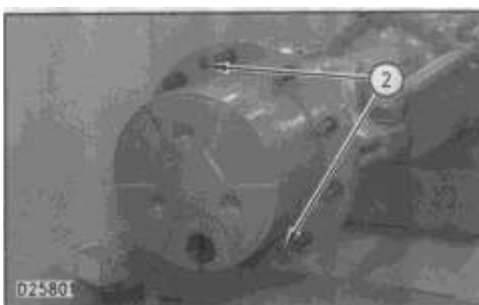
**NOTE:** The left and right axle housing assemblies are identical. All operations covered in this section must be performed on both the right and the left axle housing assemblies.

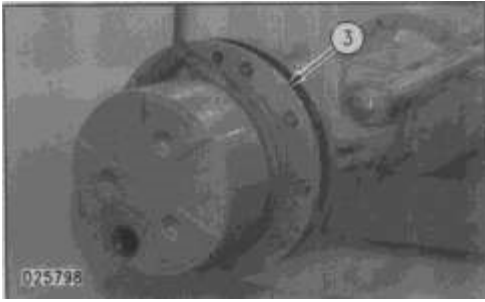


1. Secure axle assembly to tooling (A) prior to starting any work.

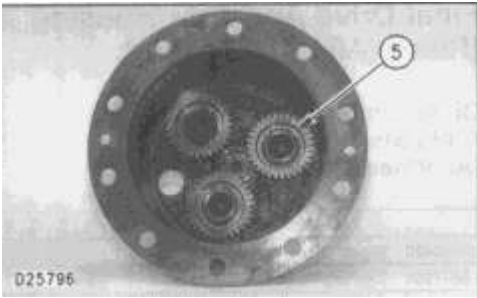


2. Loosen plug (1) in final drive and drain oil in suitable container.

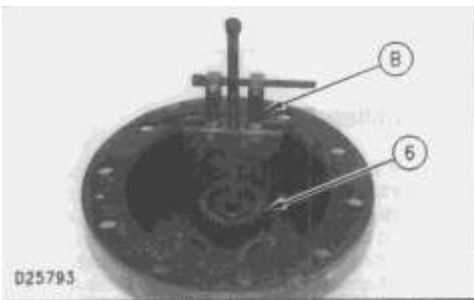




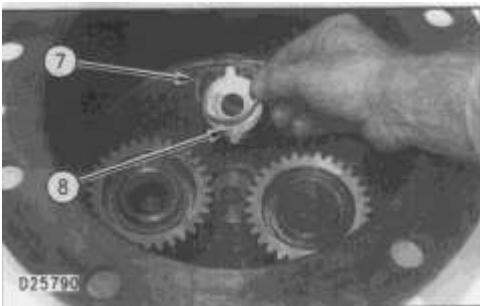
**3.** Loosen two socket head bolts (2) and separate the planetary carrier (3) from hub (4). Attach strap and remove carrier (3). Approximate weight is 34 kg (75 lb).



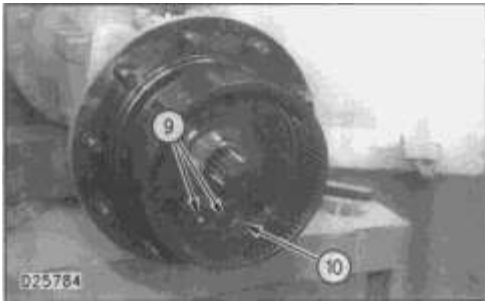
**4.** Remove snap ring (5).



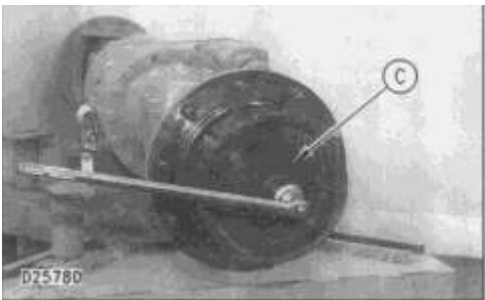
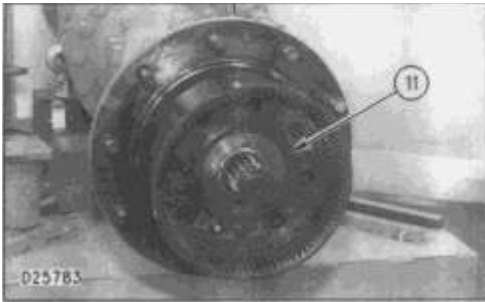
**5.** Install tooling (B) and remove planetary gears (6).



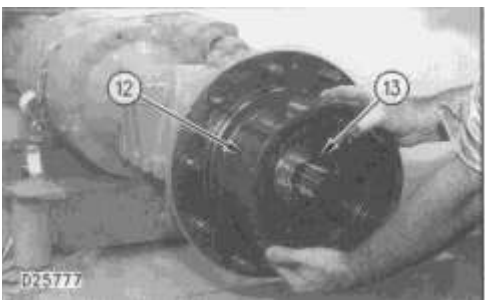
**6.** Remove snap ring (7) and remove thrust washer (8).



7. Loosen both hex head screws (9) and remove lock plate (10).



8. Using tooling (C) loosen and remove slotted nut (11).



9. Separate internal gear (12) from steering knuckle housing (13).



10. Using tooling (D), separate hub (14) from steering knuckle housing (13).

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