



Service Repair Manual

Model

438C BACKHOE LOADER

Product: BACKHOE LOADER

Model: 438C BACKHOE LOADER 2DR

Configuration: 438C Backhoe Loader Side Shift, Parallel Lift 2DR00001-02716 (MACHINE) POWERED BY 3054 Engine

Disassembly and Assembly

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

Media Number -SEN1206-02

Publication Date -01/11/2003

Date Updated -26/02/2018

SEN12060008

Axle Housing (Front) (All Wheel Drive)

SMCS - 3260-016; 3260-015

Disassemble Axle Housing (Front) (All Wheel Drive)

Tools Needed	A	B	C	D	E	F	G
1U-6405 Puller	1						
1U-6415 Puller		1					
1U-6400 Puller			1				
BT-9078 Grab Sleeve (Super)				1			
140-0134 Knock Out Tool					1		
140-0135 Yoke					1		
8H-0663 Parting Device						1	
140-0163 Seal Driver							1

Tools Needed	H	J
140-0169 Clamping Segment	1	
140-0169 Puller	1	
140-0165 Internal Puller		1
140-0168 Puller		1

Start By:

- a. remove final drive planetary carrier hub

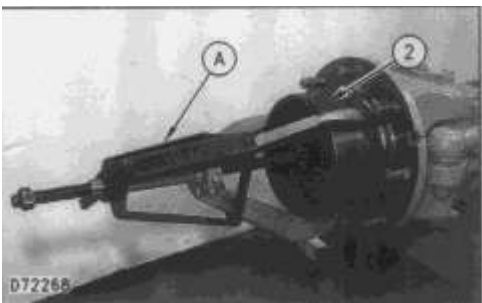
Fluid Spillage Containment

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.

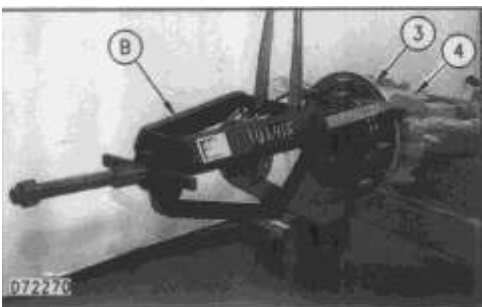
NOTE: Front axle removed for better photographic illustration



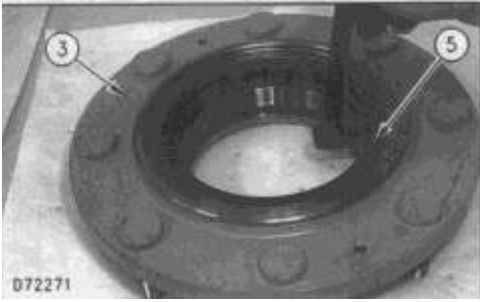
1. Remove eight bolts (1).



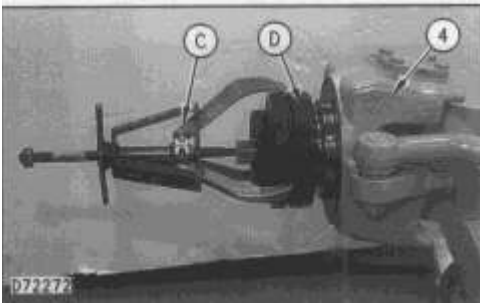
2. Remove internal gear (2) using Tooling (A).



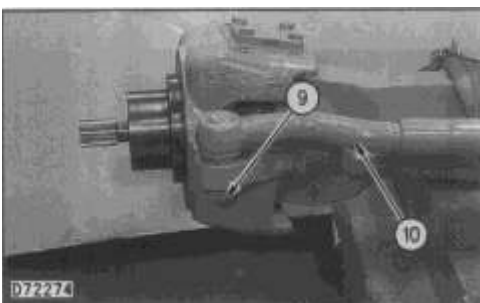
3. Remove hub (3) from steering housing hub (4) using Tooling (B).



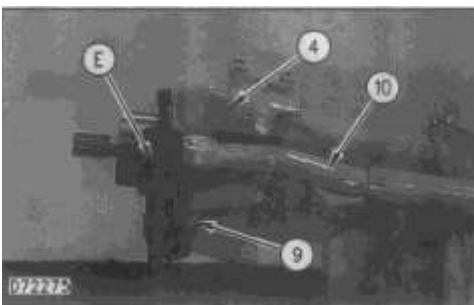
4. Pry shaft seal (5) out of hub (3). If necessary, drive the two bearing outer races out of the hub bores.



5. Remove bearing inner race from the axle housing hub (4) using Tooling (C) and Tooling (D).

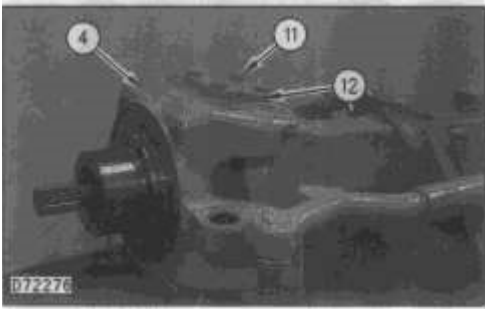


6. Loosen nut (9), but do not remove from tie rod (10).



7. Push tie rod (10) out of the axle housing hub (4) using Tooling (E).

8. Remove nut (9) from tie rod (10).

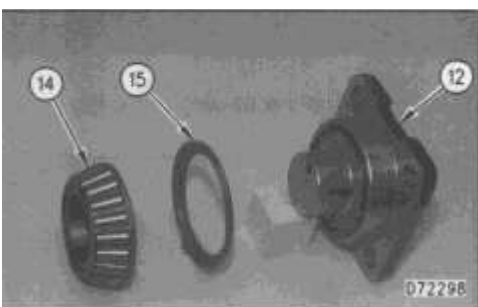
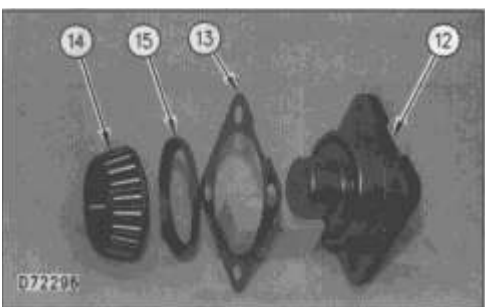
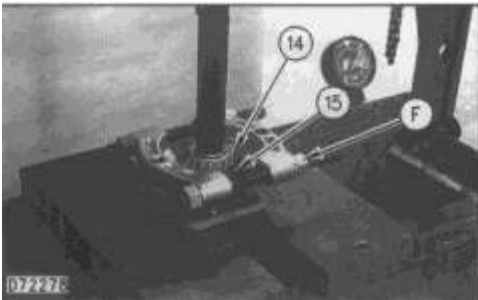


9. Remove bolts (11) and king pins (12) from the top and bottom of axle housing hub (4).



10. Remove shim (13) from top king pin.

NOTE: Check king pin bearings and if needed replace them using the following procedure:



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