

Product: WHEEL LOADER

Model: 950B WHEEL LOADER 63R

Configuration: 950E WHEEL LOADER 63R06054-UP (MACHINE) POWERED BY 3304 ENGINE

Disassembly and Assembly 950B WHEEL LOADER POWER TRAIN

Media Number -SEN2258-01

Publication Date -01/05/1987

Date Updated -15/09/2004

SEN22580028

Transfer Gears

SMCS - 3159-015; 3159-016

Disassemble Transfer Gears

Tools Needed		A	B	C
1P520	Driver Group	1		
1P2322	Puller Assembly	1		
8B7556	Adapter		1	
8B7548	Puller Assembly		1	
8B7560	Step Plate		1	
8H684	Ratchet Box Wrench		1	
8B7551	Bearing Puller Attachment			1

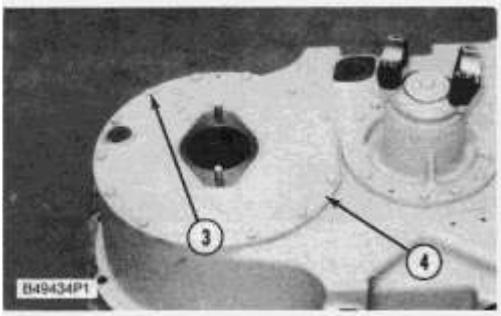
Start By:

- a. separation of transmission from transfer gears (see Disassemble Transmission).

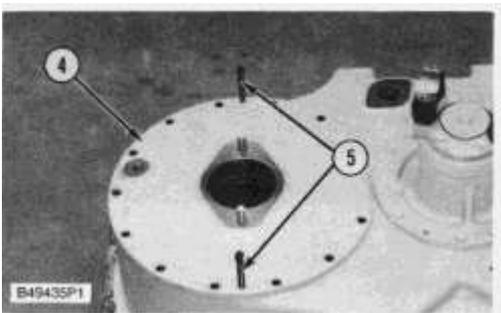


1. Fasten a hoist and turn the transfer gears over. Put the transfer gears on blocks with the back of the case up as shown. The weight of the unit is approximately 231 kg (510 lb.).

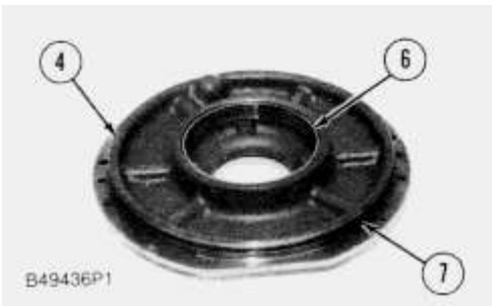
2. Remove the bolt and plate (1) from the back of the bearing cage.
3. Remove the nuts, cover (2) and the gasket from the back of the bearing cage.



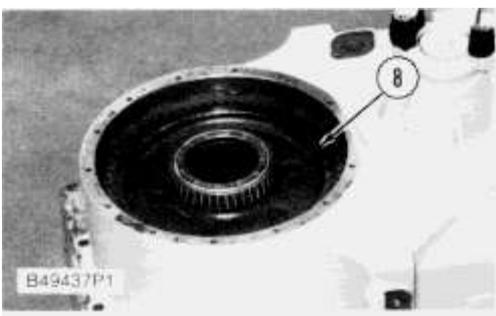
4. Remove bolts (3) that hold bearing cage (4) to the case.



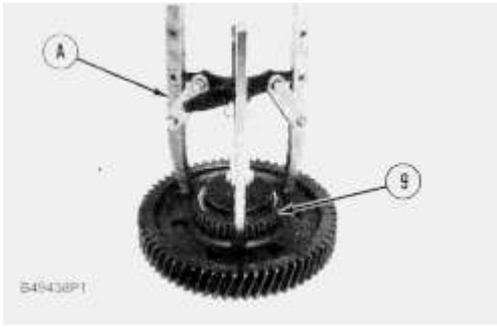
5. Use two 3/8" - 16 NC forcing screws (5) to loosen bearing cage (4) and the O-ring seal from the case. Remove bearing cage (4) and the shims. Keep the shims together for assembly purposes.



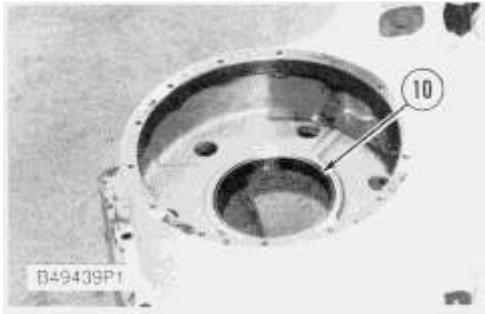
6. Remove O-ring seal (7) and bearing cup (6) from bearing cage (4).



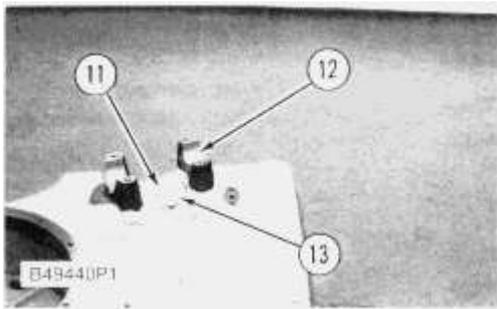
7. Fasten a hoist and remove gear (8) and the bearing cones from the case. The weight of the unit is 23 kg (50 lb.).



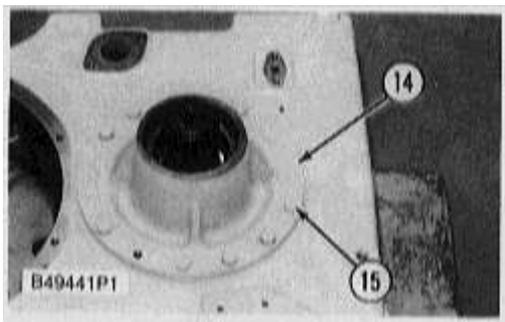
8. Use tooling (A) to remove bearing cones (9) from each side of the gear.



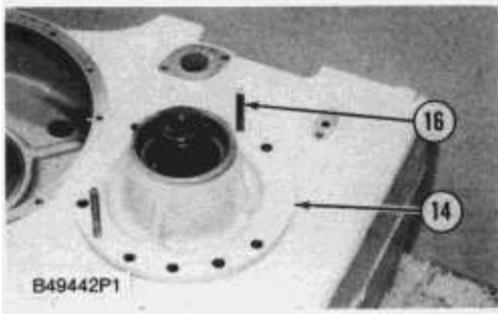
9. Remove bearing cup (10) from the case.



10. Remove bolt (11), retainer (13), the O-ring seal and yoke (12) from the output shaft.

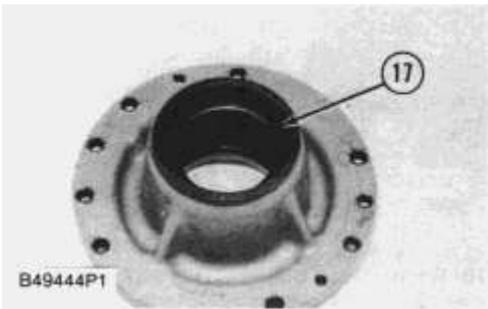


11. Remove bolts (15) that hold cage (14) to the case.

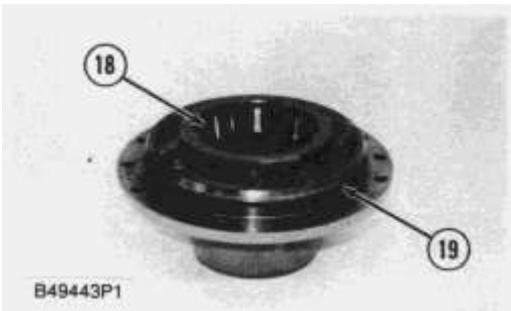


12. Use two 3/8"-16 NC forcing screws (16) to loosen cage (14) and the O-ring seal from the case.

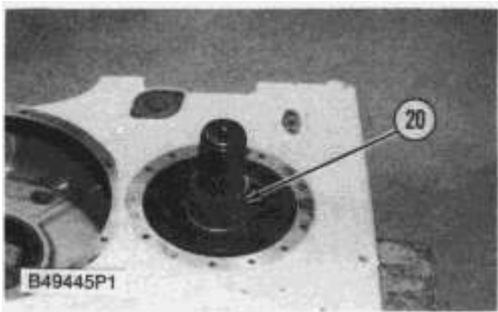
13. Remove cage (14), the O-ring seal and the shims from the case.



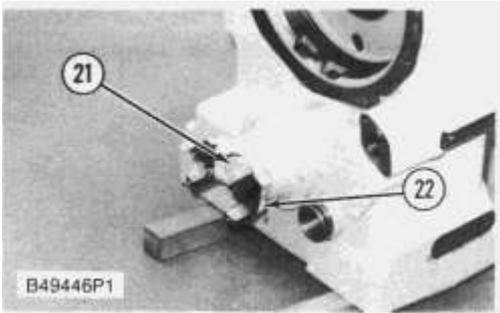
14. Remove seal (17) from the cage.



15. Remove O-ring seal (19) and bearing cup (18) from the cage.

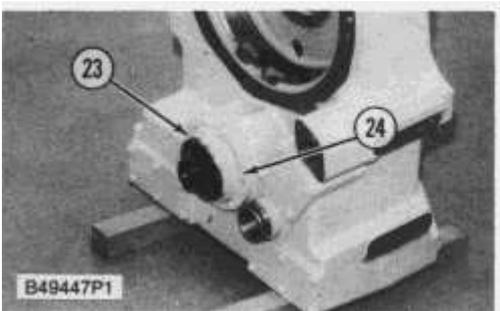


16. Remove spacers (20) from the output shaft.

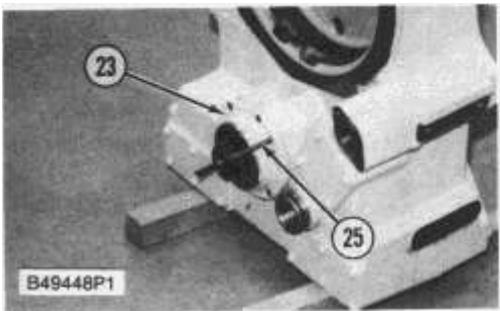


17. Fasten a hoist and put the transfer gear case in a vertical position. The weight of the unit is 186 kg (410 lb.).

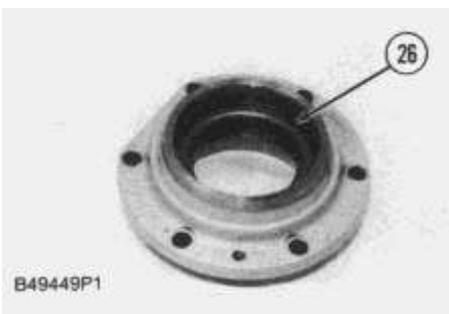
18. Remove the bolt, retainer (21), the O-ring seal and yoke (22) from the output shaft.



19. Remove bolts (24) that hold cage (23) to the case.



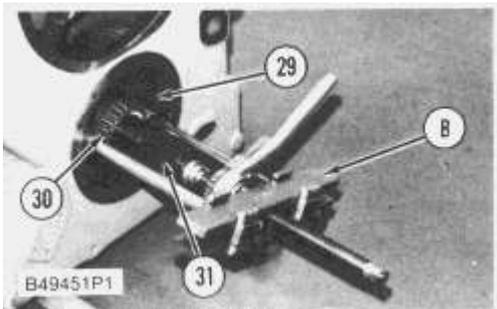
20. Install two 3/8"-16 NC forcing screws (25) to remove cage (23) from the case.



21. Remove seal (26) from the cage.



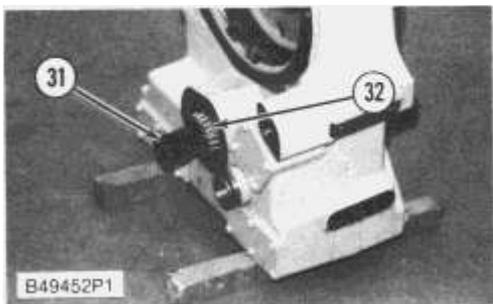
22. Remove bearing cup (27) and O-ring seal (28) from the cage.



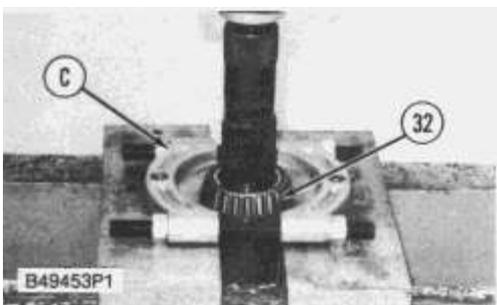
23. Fasten a nylon strap and a hoist to hold gear (29) in position.

24. Use tooling (B) to push output shaft (31) from gear (29) and bearing cone (30).

25. Remove gear (29) from output shaft (31).

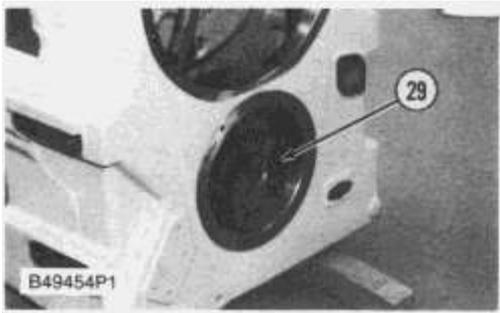


26. Remove output shaft (31) and bearing cone (32) from the case.

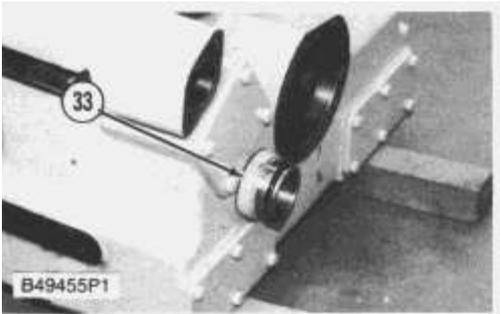


27. Use tool (C) and a press to push the output shaft from bearing cone (32).

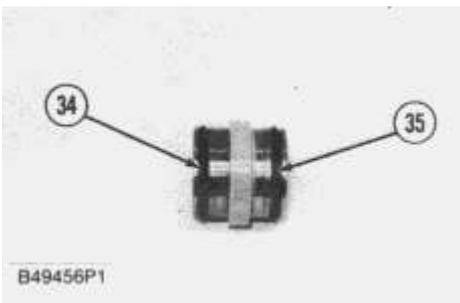
NOTE: The output shaft is free to fall when the bearing cone is removed.



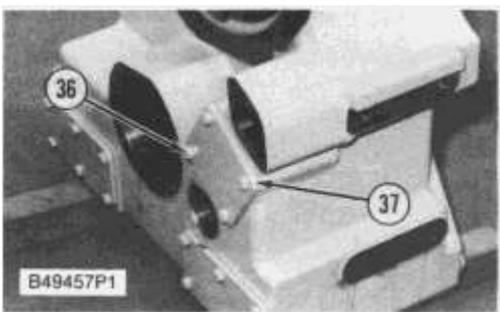
28. Remove gear (29) from the transfer gear case.



29. Remove sleeve (33) from the case.



30. Remove O-ring seals (34) and (35) from the sleeve.



31. Remove bolts (36), cover (37) and the gasket from the case.



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