

PARTS & SERVICE NEWS

REF NO.

AH03506a

DATE

25th June. 2003

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This PARTS & SERVICE NEWS supersedes the previous issue AH03506 which should be discarded.

SUBJECT: Hydraulic oil cooler and water cooler fan bearings

PURPOSE: Replacement of the bearings

APPLICATION: PC1400; PC3000; PC4000; PC5500; PC8000; all H - models

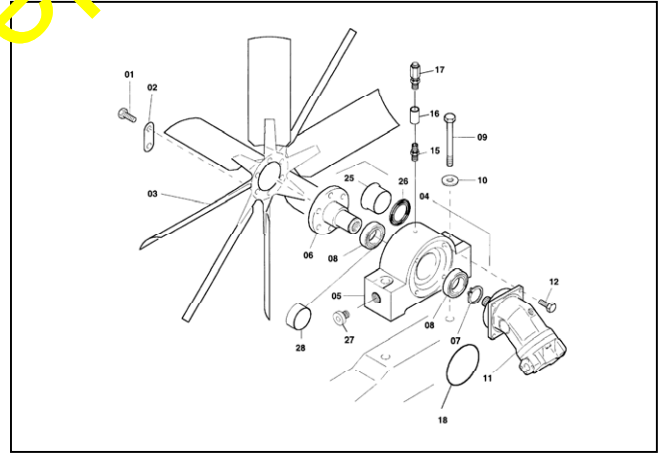
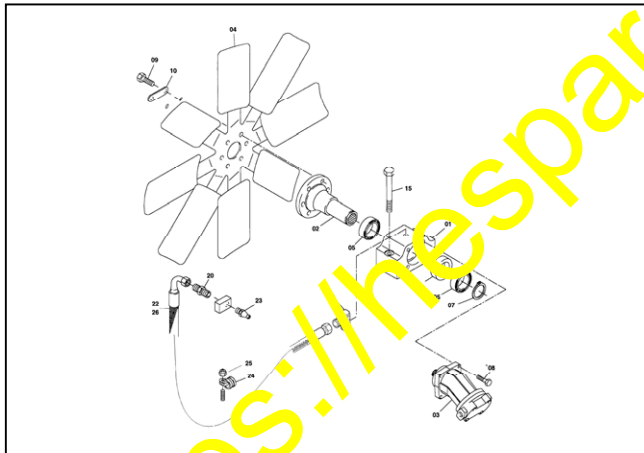
FAILURE CODE: 0373CA

DESCRIPTION:

Two types of bearing units are used for the cooler fans at the above mentioned excavator models:

1. Grease lubricated bearings

2. Gear oil lubricated bearings



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 We recommend to replace these bearings to avoid consequential damages according to the following table:

Bearing unit	Replacing time after:
Grease lubricated bearings	8 000 working hours
Gear oil lubricated bearings	10 000 working hours *

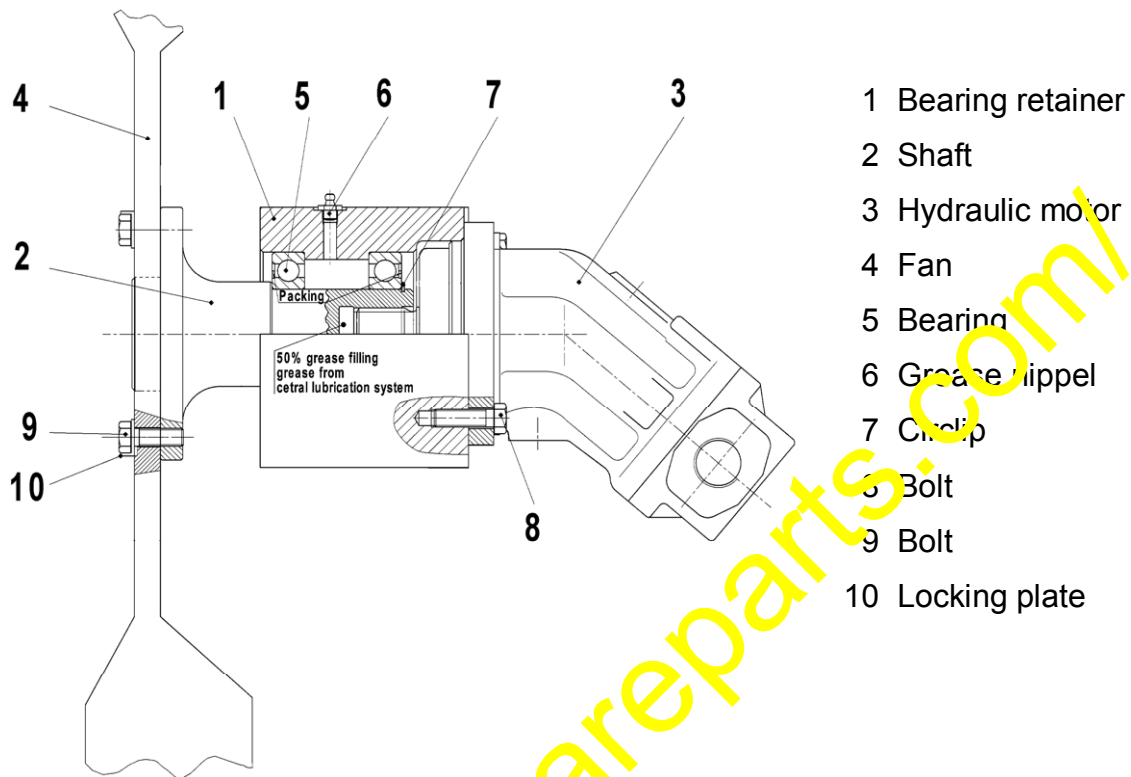
* or if damage or a leak has occurred.



- The hydraulic motors for the fans should be replaced preventively every 10000 working hours.

Hints for replacement:

1. Grease lubricated bearings



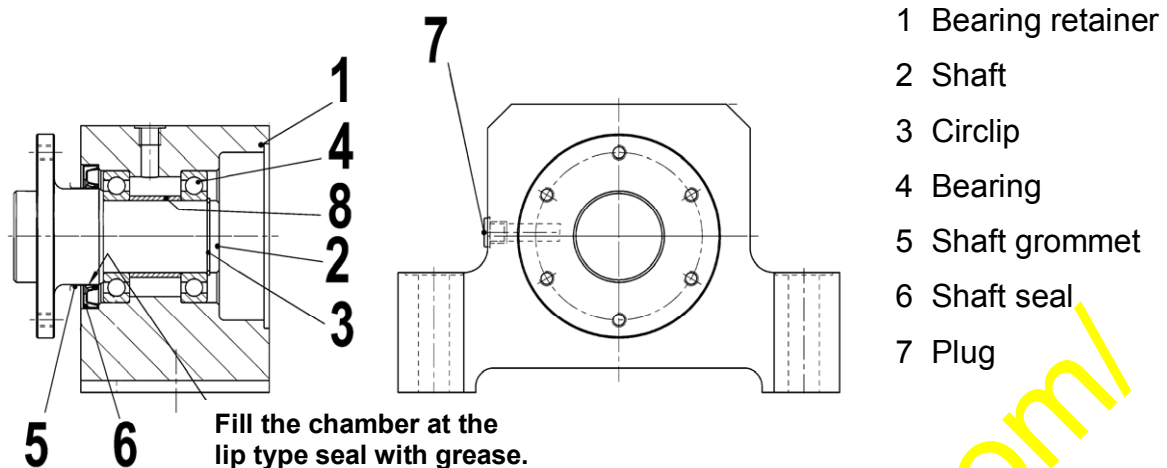
- 1 Bearing retainer
- 2 Shaft
- 3 Hydraulic motor
- 4 Fan
- 5 Bearing
- 6 Grease nipple
- 7 Circlip
- 8 Bolt
- 9 Bolt
- 10 Locking plate

1. Remove the hydraulic and the grease lines; the fan; and then the motor.
2. Remove the bearings and the fan shaft.
3. Clean all parts carefully.
4. Install the first bearing (5) and fill the chamber between the bearings to 50% with grease.
5. Install the shaft with the first bearing (5) and the grease into the bearing retainer.
6. Install the second bearing and fix it with the circlip (7).
(Install also the sleeve between the bearings if applicable.)
7. Grease the hydraulic motor drive shaft with "Optimol paste white T" and fill the chamber in the fan shaft to 50% with normal grease according to the drawing above.
8. Reinstall the bearing hub, the fan and the motor.
9. Reconnect all lines.



- Grease the bearings every 500 working hours with **maximal 2 strokes** with the hand greasing pump.

2. Gear oil lubricated bearings

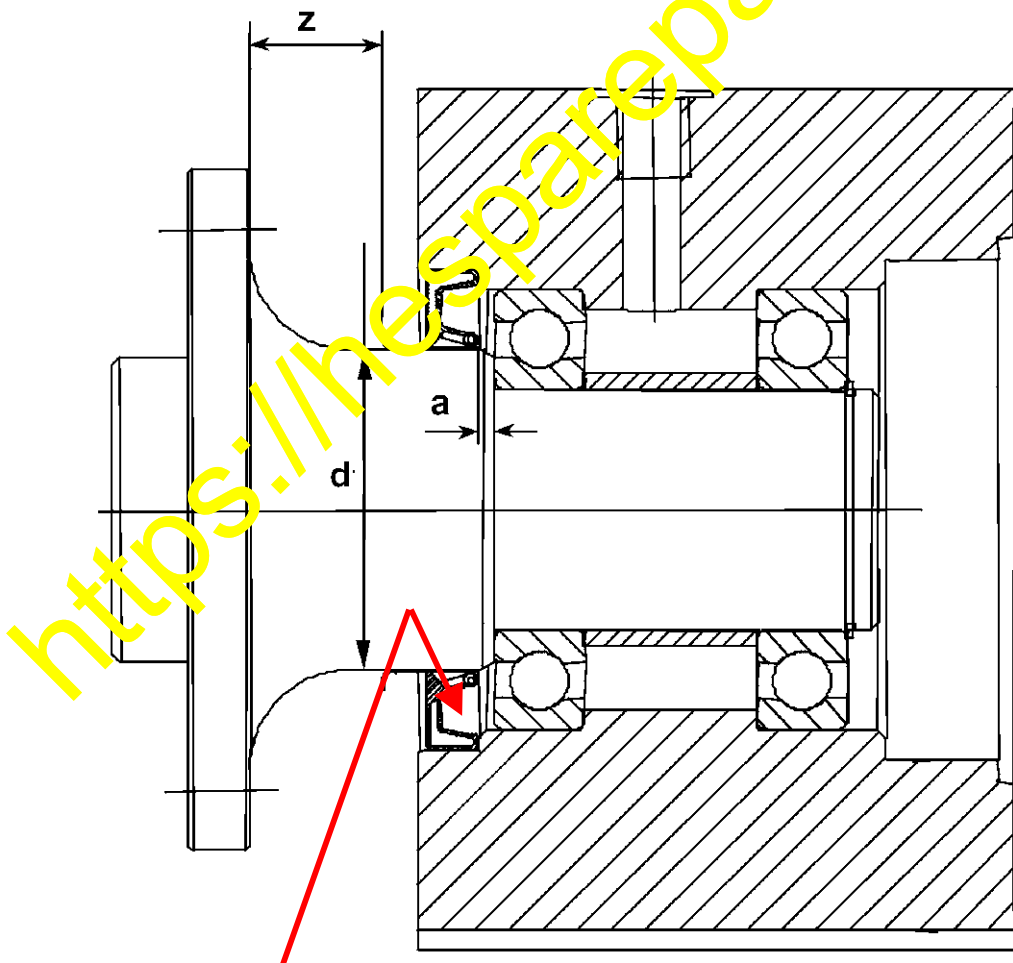


1. Remove the hydraulic lines; the fan, then the complete unit
2. Drain off the gear oil and remove the motor, the bearings, the fan shaft, the shaft grommet and the shaft seal.
3. Clean all parts carefully.
4. Check the dia. "d" according to drawing and table at the next page.
5. Install a new shaft grommet with the flanged end at first (press it into depth "a" see next page).
6. Do not remove the seam of the shaft grommet.
7. Install the 1st bearing and the shaft seal into the bearing retainer.
8. Grease the shaft and install it.
9. Mount the 2nd bearing(4) and the circlip.
10. Check the spline and grease the hydraulic motor drive shaft with "Optimol paste white T".
11. Reinstall the motor by using a new O – ring and mount then the fan.
12. Fill in the bearing retainer gear oil according to the Maintenance Manual.
13. Reconnect the hydraulic lines.

	PC 4000		PC 5500		PC 8000	
	Oil cooler	Water cooler	Oil cooler	Water cooler	Oil cooler	Water cooler*
	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
Fan mounting (assy.)	895 907 40	902 026 40	910 911 40	904 791 40	903 890 40	909 685 40b
Repair kit **	792 965 73	792 966 73	792 965 73	792 966 73	792 967 73	792 968 73
Press depht "a" (mm)	4 ^{-0,5}	3,7 ^{+0,2}	4 ^{-0,5}	3,7 ^{+0,2}	4 ^{-0,5}	4,3 ^{±0,8}
Shaft dia. "d" (mm)	Ø80 ^{±0,05}	Ø110 ^{±0,05}	Ø80 ^{±0,05}	Ø110 ^{±0,05}	Ø100 ^{0,03 -0,10}	Ø 85 ^{±0,05}

* Serial No. 12040 up – see drawing next page

** The Repair kit includes: 2 bearings; 1 shaft seal; 1 shaft grommet; 1 O-ring



Fill the chamber at the lip type seal with grease.

PC8000-6 Water cooler fan bearings

