

PARTS & SERVICE NEWS

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Page 1 of 3

SUBJECT: BRAKE CONTROL OIL CIRCUIT INLINE FILTER ELEMENT WITH IMPROVED PERFORMANCE FOR HD465-7, HD605-7

PURPOSE: To introduce newly developed in-line filter element with improved filtration performance for the brake control oil circuit for HD465-7 and HD605-7 dump trucks

APPLICATION: HD465-7 Dump Trucks, Serial Nos. 7001 thru 7185
HD605-7 Dump Trucks, Serial Nos. 7001 thru 7091

FAILURE CODE: 2C0AZ9

DESCRIPTION:

1. Introduction

This Service News will introduce newly developed in-line filter element with improved filtration performance so that the filtration effect of the brake control oil circuit on the HD465-7 and HD605-7 dump trucks may be improved.

* Order this new element when making periodical changes of the in-line filter element.

2. List of parts

Part No.	Part Name	Qty	Remarks
(569-43-83910) (23W-60-24130)	(Filter ass'y) (Filter ass'y)	1 (1)	Part No. of the ass'y parts
569-43-83920 (23W-60-24140)	Element (Element)	1 (1)	Component parts
07000-12065	O-ring	1	
07000-02065	Backup ring	1	

3. Details of the improvement

¥ In order to improve the filtration effect for the brake control circuit oil, a new element with improved filtration performance has been developed .

Filtration ratio : $\beta_{10} = 1.4 \rightarrow \beta_{10} = 3$

(The trapping ratio of foreign substance with sizes of 10μ or more has been increased to more than double.)

Install the above mentioned improved element at the time of the periodical change at every 1,000 hours.

3-1 Preparations for the changing work

- (1) Park the vehicle on a flat place, and apply the parking brake with the body seated and turn "OFF" the main switch. After that, apply chocks to each tire.
- (2) Depress the brake pedal for 20 times or more to reduce the pressure inside the brake control accumulator to "zero".

¥ When the pressure in the accumulator is released, the leg power to depress the brake pedal decreases and the hydraulic noise will fade away.

Since the temperatures of the parts and oil are still high immediately after the engine has stopped, burns may occur.

Therefore, start the changing work after the temperature has dropped.

3-2 Changing procedure

* Refer to the Section "Replacement of brake oil filter element" in the Chapter "Inspection and Maintenance" in the Operation and Maintenance Manual.

1. Remove the bolts to remove the accumulator cover 1 and place an oil pan under the filter to receive the waste oil.

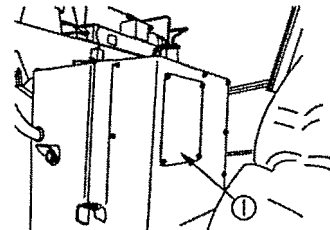


Fig. 1

2. Remove the filter case 2.

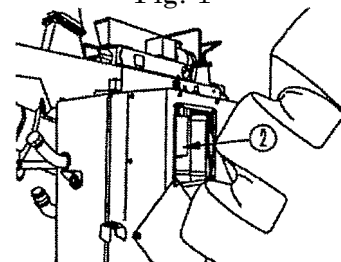


Fig. 2

3. Take out the element and wash the inside of the filter case.

Replace the O-ring 3 (07000-12065) and backup ring 4 (07001-02065) with new parts. When replacing them, apply clean oil lightly onto the surfaces of the new parts before installation.

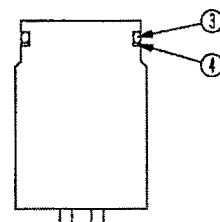


Fig. 3

4. Install the new element (569-43-83920) into the filter case 2 and set the O-ring to the filter head after applying clean oil lightly onto the surface of the O-ring for the element.

* Tightening torque: 78.4 - 98 Nm {8 - 10 kgfm}

On the upper surface of the improved type element, the part number and the identification mark "P03" have been painted.

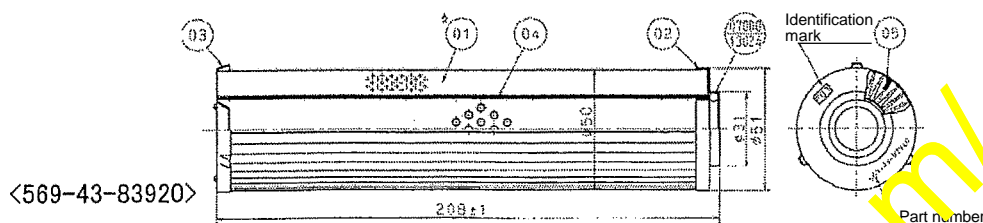


Fig. 4

5. Install the accumulator cover 1 .
6. Referring to the Operation and Maintenance Manual, carry out air bleeding from the brake oil circuit.