

# PARTS & SERVICE NEWS

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**SUBJECT:** NEW HUB GREASE AND SEAL FOR FRONT AXLE ON HD325-5/HD465-3

**PURPOSE:** To introduce improved grease and seal with enhanced leakage-proofing capacity for use with the front axle of the HD325-5 and HD465-3 dump trucks

**APPLICATION:** HD325-5 Dump Trucks, Serial Nos. 2264 thru 2918  
 HD325-5PB Dump Trucks, Serial Nos. 3001 thru 3043  
 HD465-3 Dump Trucks, Serial Nos. 2137 thru 2422  
 HD465-3PB Dump Trucks, Serial Nos. 3001 thru 3047

**FAILURE CODE:** 2A81B1

## DESCRIPTION:

### 1. Introduction

This Service News introduces improved grease and seal with enhanced leakage-proofing capacity for use with the front axle wheel bearing of the HD325-5 and HD465-3 dump trucks. Use these improved grease and seal at times of conducting overhauling or when repairing grease leakage.

Meanwhile, even if the grease and the seal were changed to the improved ones according to this literature, if the operator activates the foot brake too frequently when traveling downhill, the grease deteriorates by the extraordinary heat generation from the frequent foot-braking, resulting in grease leakage through the hub seal. Consequently, suggest to your customers that they use the retarded brake for downhill travel whenever possible.

### 2. List of parts

Part No.	Part Name	Q'ty	Remarks
566-27-41412 (566-27-41411)	Seal (Seal)	2 (2)	For the HD325-5 Already registered to the master registration of the spare parts.
569-30-11412 (569-30-11411)	Seal (Seal)	2 (2)	For the HD465-3

2. Introduction of the improved grease and seal

2-1 Grease [ Please contact with your KOMATSU distributors about the grease of local procurement.

We have newly adopted the following brands of grease that are less apt to be softened and liquidated by the kneading effect occurring from revolutions of the wheels.

(1) New brands of grease

No.	Manufacturers	Brands	Remarks
3	Shell Petroleum	Super Duty Grease2	Available overseas.
4	Esso Petroleum	RONEX MP	
5	B.P	Energrease LS-EP 2	
6	CALTEX	None is recommendable at present	

(2) Characteristics of brands of grease

	SHELL	ESSO	B.P	Current grease G2-U	
Hue	Grayish black	Dark green	Light brown	Yellow	※1
Soap base	Lithium	Complex lithium	Lithium	Urea	
Base oil types	Mineral oil	Mineral oil	Mineral oil	Mineral oil	
Kinematic viscosity of the base oil (at 40°C)	210 cst	140 cst	165 cst	143 cst	
Dropping point	196°C	230°C	190°C	284°C	
Consistency (60 times of kneading under 25°C)	272	285	295	276	
Shell roll test (10rpm, 130°C, 72h)	322	298	317	426	※2

※1: Indicates the hue while the grease is still new.

※2: These figures represent the degrees of liquidating and softening of the grease and the smaller the figure is, the less liquidating and less softening the grease is. Under normal operations, less than 340 of these figures will not cause liquidation and softening.

(3) Precautions when changing grease

When these brands of the improved grease are mixed with the grease which was charged before shipment from the factory of the vehicles (hereafter called urea grease), swelling occurs to deteriorate the components.

Consequently, when changing to the improved grease, totally remove the current urea grease and wash the internal surfaces of the hub and the bearing in order not to let the old and new grease mix.

(4) Charging quantity:

HD325-5 About 5 l /wheel

HD465-3 About 10 l /wheel

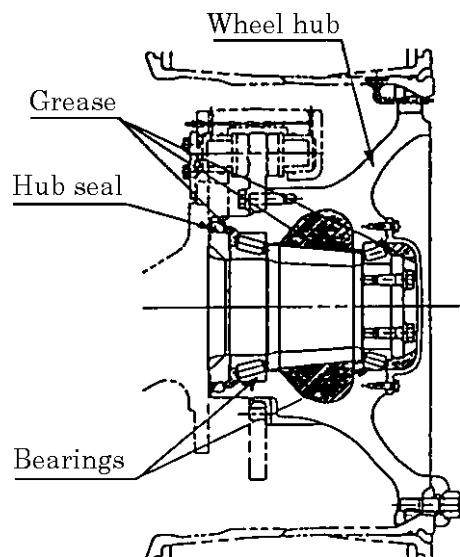
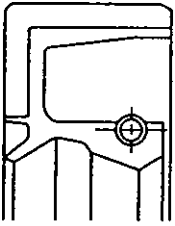
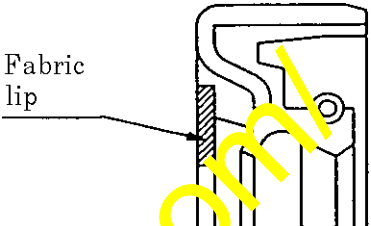

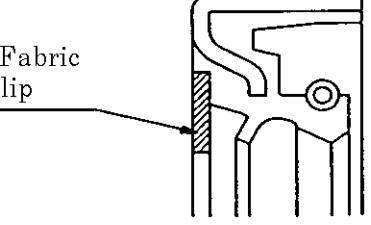


Fig. 1

## 2-2. Grease seal

We have discontinued use of the fabric lip and improved the lip shape to enhance the dust-tightness and grease sealing capacity of the grease seal.

### (1) Comparison of the two types

		Improved seal	Current seal
HD325-5	Part No.	566-27-41412	566-27-41411
	Types		
HD465-3	Part No.	569-30-11412	569-30-11411
	Types		

### (2) Precautions when installing the seal

- ① Degrease the mating surface to the seal of the wheel hub and the outer peripheral surface of the seal, dry them and apply liquid adhesive over the outer periphery of the seal before inserting the seal into its place.

Useable liquid adhesive: Loctite 648 (287-01-12830)

- ② Fill grease into the space between the seal lips.

