

735/740 Articulated Haul Truck – Wet brake Application Mechanical Seals

SAP Parts Pvt. Ltd.

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Edition : 1

WET-BRAKE APPLICATION SEALS

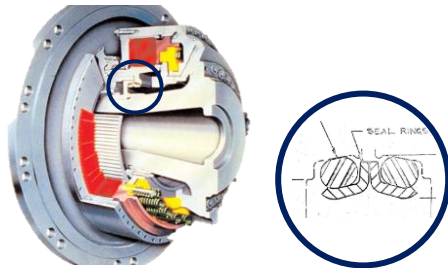
Duo-Cones



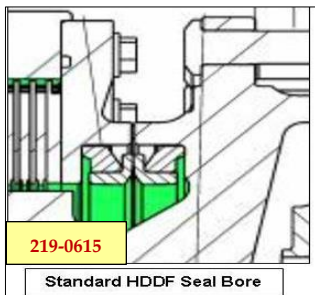
Haul Truck- Wet Brake System Seals

- Wet brakes systems employs Oil to Cool the Heavy applications.
- Sealing and handling the large amount of lubrication Oil in the system is a challenge for normal seal.
- Mechanical Face Seals handle more stopping power and torque during application.
- Sealing requirements of wet brakes demands High Thermal Stability and abrasion resistance.

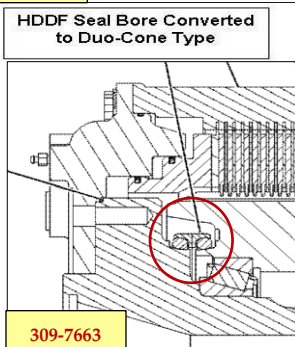
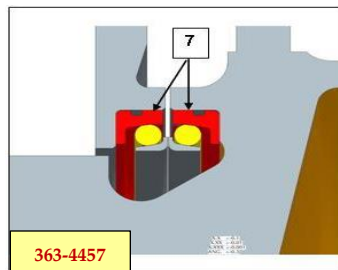
CAT - 735/740 Articulated Haul Truck



Wet Brake Assembly



The old Standard HDDF seal # 219-0615 which is a TRAPEZOID Mechanical face seal can lose its sealing capability and observed to leak on certain 735, 740 Ejector, and 740 articulated trucks. This HDDF seal if fails it can be replaced with a new DO Type of seal # 366-4457.



History of Change in Caterpillar 735/740 Articulated Haul Truck Wet brake Application Mechanical Face Seals



Caterpillar has two parts numbers for Wet Brake Application Mechanical Seals in 735/740 articulated Haul Truck.

1. 363-4457

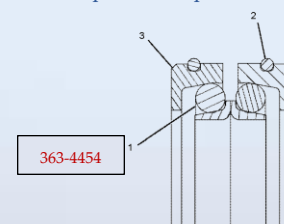
This is a DO Type Seal which CAT has Replaced from Original Seal Group - HDDF 219-0615 i.e. seal with Rectangular Cross Section Rubber Ring from 30Apr2014, on account of heavy leakages reported.

To convert the Housing of HDDF 219-0615 suitable for DO type 363-4457 seal, it needs a separate Adaptor Ring (7 as shown in fig.)



This new design, accommodating DO type seal has following elements -

- 1. #363-4454 : Duo-Cone Seal Group
- 2. #363-4455 : O-Ring of Adapter Housing
- 3. #363-4456 : Special Adapter Housing.



2. 309-7663

This is another DO Type Seal Group Number, in the same wet brake assembly which has ONE inverted Duo Cone Seal of part number 309-7664

