



CASE STUDY

CUSTOMER

IRON ORE COMPANY OF CANADA

LOCATION

NL, CANADA / JUN 2010

EQUIPMENT

830E HAUL TRUCK WHEEL MOTOR

APPLICATION

787 DRIVE SYSTEM LUBE OIL

PROVEN RESULTS



UNIQUE DESIGN
ALLOWED TO
SOLVE PROBLEM OF
CONTAMINATION

CHALLENGE

Design a magnetic filter to install on the wheel motor drive system where no conventional filtration was deployable.

SOLUTION

Replace the OEM filler cap with a specialty OEI magnetic filter filler cap designed with a filter dipstick to capture contamination in the system, and a sample port to prevent external contamination from entering the system during fluid level inspections.

RESULTS

The photos show contamination captured on the magnetic filter elements after 450 hours of operation.

The specialty design is a dynamic predictive maintenance tool.

- Fluid levels can be checked without removing the filler cap
- Oil can be sampled by inserting the hose into the dip stick pipe which stops the hose at a predetermined length for consistency
- The magnetic filter element can be removed and the contamination analyzed to determine premature component wear



PRODUCT RECOMMENDATION

WHEEL MOTOR
LEVEL SAMPLE
PORT MONITOR



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