



CASE STUDY

CUSTOMER

TECK COAL

LOCATION

BC, CANADA 2015

EQUIPMENT

KOMATSU 930E HAUL TRUCK, WHEEL MOTOR

APPLICATION

LUBE OIL

PROVEN
RESULTSVALUABLE
PREDICTIVE
MAINTENANCE
TOOLCUSTOMER
EMPLOYED
OEI
MAGNETIC FILTER PLUGS
ON ALL WHEEL MOTORS

CHALLENGE

Find a more effective, predictive maintenance tool than OEM ceramic-magnetic plugs to monitor and identify premature wear of the haul truck wheel motors.

SOLUTION

Test the efficiency of OEI magnetic technology against OEM magnetic technology. Install an OEI magnetic filter plug alongside 7 OEM plugs on the wheel motor to evaluate and compare their capability of capturing wear contamination.

RESULTS

Before the test was completed, the wheel motor had a catastrophic failure.

When the magnetic plugs were removed at the rebuild shop, the OEI magnetic filter plug showed signs that a bolt had broken off causing severe damage and catastrophic failure.

If OEI magnetic filter plugs had been in service and monitored as part of a predictive maintenance plan, this failure could have been prevented.

OEM
MAGNETIC PLUGOEI MAGNETIC
FILTER PLUGPRODUCT
RECOMMENDATION**MAGNETIC
FILTER PLUG**

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