



CASE STUDY

CUSTOMER

DIAMOND MINE

LOCATION

NWT, CANADA / FEB 2014

EQUIPMENT

550 KOMATSU SHOVEL, HYDRAULICS

APPLICATION

6000 L OF HYDRAULIC FLUID

PROVEN
RESULTSISO LOWERED:
25/24/16
TO
17/14/10
IN 3 HOURSHYDRAULIC SYSTEM
FAILURES
PREVENTED

PROBLEM

A diamond mine in the North West Territories of Canada was challenged with hydraulic system failures that were causing frequent unscheduled downtime.

The maintenance manager required a filter skid capable of improving the Komatsu Shovel's hydraulic fluid ISO rating 25/24/16 to the standard 18/16/13 within the three hour period.

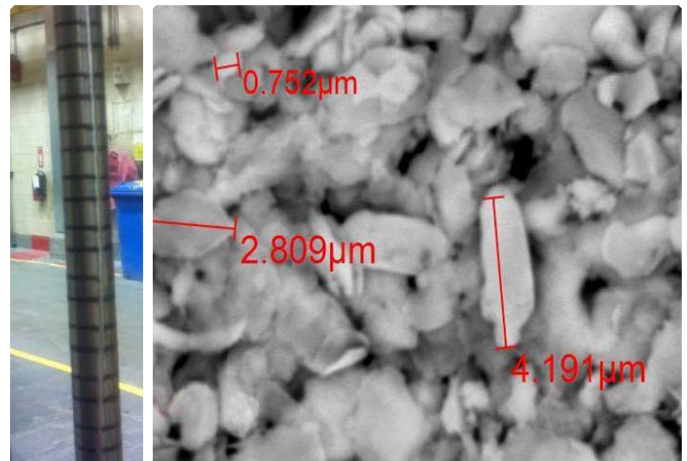
SOLUTION

Mark Robillard with the mining division of Kingsland Ford recommended testing an OEI high-flow kidney loop system capable of operating 6000 L of hydraulic fluid. The diamond mine proceeded to run an OEI kidney loop system on a 3 hour trial.

RESULTS

Results showed that the OEI system exceeded the standards required – retaining a cleanliness level of 17/14/10. When analyzed, the contamination on the magnetic filter elements identified 88% ferrous particles and 12% non-ferrous particles consisting of mainly carbon and calcium.

The diamond mine Maintenance Manager is so impressed that he is incorporating other OEI filtration solutions on other equipment.



PRODUCT
RECOMMENDATION
**KIDNEY LOOP
SYSTEM**



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