

Case Study: Oil Sands Open Pit Mine



CROWD CASE



P&H 4100C Oil Sands Fort McMurray, Canada May 2009

APPLICATION: NEW P&H 4100C Gear box lube oil filtration

PROBLEM: Metal contamination in the crowd and hoist gear boxes.

SOLUTION: P&H MinePro Canada a distributor for OEI filtration solutions in keeping with their proactive maintenance program installed OEI magnetic filters in the Crowd and Hoist gear boxes.

RESULTS: The following photos show the installation and results of OEI magnetic filters on this shovel. Photo A shows the installed magnetic filter (3RCL12HD) on the inspection plate of the swing case for optimum filtration and easy access.

Photo B shows the contamination (down to submicron in size) removed by the magnetic filter after 500 hours.

Photo C shows the installation of the magnetic scrubber (5SC12SCL) installed prior to the pump on the hoist case lubrication system this location protects the circulation pump with no flow restriction and is extending the life of the traditional filters.

HOIST CASE

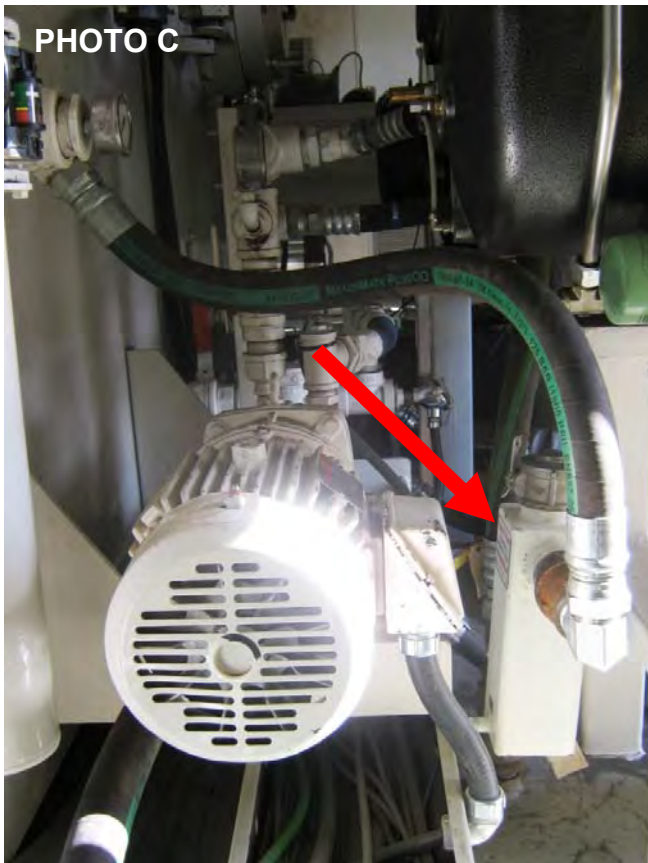


Photo D shows the contamination removed from the hoist case. Much of the contamination is manufacturing and break in wear, left in the system it will result in reduced component life.

The OEI magnetic filter is easily cleaned and the trapped contamination analyzed for component wear identification allowing predictive maintenance planning. For further information contact our office or visit our website www.OneEyeIndustries.com