

Magnetic Filtration Case Study





P&H 2800XP Shovel

Rio Tinto Energy America Wyoming USA March 2008

APPLICATION: Crowd Gearbox on P&H 2800XP Shovel

PROBLEM: No filtration for the gear oil in the Crowd gear box and increasing levels of ferrous metal contamination are prematurely wearing the components and reducing the lube oil life.

Perry Simunek (Maintenance Engineer) was challenged with the task of improving the ISO cleanliness levels on Rio Tinto's Equipment.

SOLUTION: Mr. Simunek suggested the installation of an OEI Magnet Filter rod (3RCL18) in Crowd gearbox during rebuild. (Photo A)

RESULTS: The ferrous metal trapped on the magnetic filter (Photo B) represents approximately 800 hours of running time. If left in the fluid these metal particles will prematurely wear the components and degrade the fluid viscosity.

The OEI magnetic filter is easily cleaned and the trapped contamination can be analyzed for component wear identification allowing predictive maintenance planning.

For further information contact our office or visit our website www.OneEyeIndustries.com.

