

Case Study: Magnetic filtration of lube oil
May 2010



Mount Polley Mining Corp.
Williams Lake British Columbia,
Canada

APPLICATION: Pinion Gear Lube

PROBLEM: Ferrous Metal Contamination

SOLUTION: Geordie Tugnum a fluid specialist for Bearing & Transmission a distributor for OEI recommended replacing the OEM's filters with the ADD-Vantage 9000 cleanable stainless screen element and dual magnetic filter. (9ADV9-926170L)

RESULTS: After 7 days, a substantial amount of Ferrous Metal was extracted and trapped on the OEI magnetic filter. If left in the fluid these metal particles will prematurely wear the components and reduce the gear oil life.

Conclusion: Andrew Nairn, Mill Maintenance Planner for Mount Polley Mining stated "that without the One Eye filter a significant proportion of this fine metal would have found its way back to the pinion bearings, gears and lubrication pump. This could have lead to premature failures and costly unplanned maintenance."

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.