

Magnetic Filtration Case Study May 2008



Newcrest Mining Ltd Cracow Gold Mine Australia

APPLICATION: Symons 4 ¼' Cone Crusher

PROBLEM: Ferrous Metal Contamination

SOLUTION: Replace one of the OEM's filters with OEI's ADD-Vantage 9000 Filter with patented Magnetic Design.

RESULTS: After 64 hours, 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 degrade the fluid viscosity.

Conclusion: Newcrest's view is that without the One Eye filter a proportion of this material would have found its way back to the bearings, gears and lubrication pump. This could have led to premature failures and costly unplanned maintenance.

As part of the continuous improvement program at this site we have identified other pieces of critical plant equipment that will benefit from the advantages of magnetic filters.

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.