

Magnetic Filtration Case Study

March 2008



Photo A

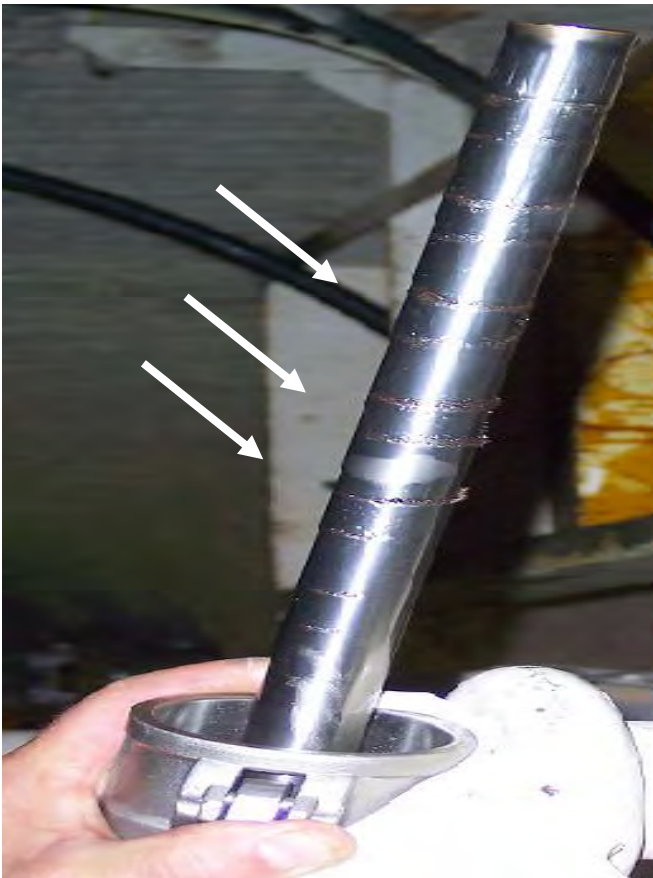


Photo B

MOSAIC COMPANY Esterhazy Potash Mine

Esterhazy, Saskatchewan, Canada

APPLICATION: Hydraulic Fluid

PROBLEM: Dean Stephens A.Sc.T., CMRP Underground PdM Supervisor; was concern with ISO cleanliness level of new hydraulic fluid.

SOLUTION: Installed an OEI 5000 series magnetic scrubber on to the hydraulic oil supply line (Photo A) in the lube shed.

RESULTS: After 5 weeks of service in a Potash mine underground, the magnetic filter extracted a substantial amount of ferrous metal (Photo B).

This is not a kidney filtration system; it's just a direct line from the tank to the nozzle end. They were amazed how much ferrous metal there is in new hydraulic oil. Had this metal been introduced to our equipment it would definitely have caused premature wear to the seals and gears. "There are several applications underground (and on surface) where we can be using these filters to address fluid contamination. I am currently sourcing an equivalent scrubber for our diesel fuel line as well."

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