

## Magnetic Filtration Case Study March 2008



## Surefire Industries Ltd Calgary Alberta

**APPLICATION:** Hydraulic Reservoir

**PROBLEM:** Ferrous Metal Contamination from manufacturing process.

**SOLUTION:** Installation of OEI 3000 series Magnetic Filter rod in the reservoir.

**RESULTS:** Sure Fire was tasked to refit a Schlumberger Cementer with a new hydraulic system. The senior design engineer, Oleg Tsvik, experienced with OEI filters installed a Magnetic Filter Rod into the new reservoir. The photos display a significant amount of ferrous metal contamination the regular filters missed after just 2 hours of operation.

The OEI Magnetic Filters supplied by Kinecor are capable of removing ferrous contamination to sub micron levels and provides protection to ensure significantly longer life of components and fluids. This translates to extended operational cycles and reduced maintenance costs.

Sure Fire designs OEI filters into every piece of equipment it manufactures: Coil Tube rigs, N2 Pumpers and Frac Units. They also have application in Wire Line Trucks, Flush by Trucks, Work Over Rigs, Heli Portable Rigs, Casing Rigs, Mud Pumps and Cementers. Operating in isolated locations these units cannot afford to be down.

These metal particles will prematurely wear the pump and seals and degrade the fluid viscosity. OEI magnetic filters are 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](http://www.OneEyeIndustries.com).