

Magnetic Filtration Case Study  
July 2007



## Unit Rig Haul Truck

### Buckskin Mine Company

Kiewit Mining Group  
Gillette, WY

**APPLICATION:** Steering and Hydraulic Filtration

**PROBLEM:** Steering pump failure due to premature wear to hydraulic components.

**SOLUTION:** Installation of an OEI 5000 and 4000 Series Scrubbers. The steering and hydraulic systems share the reservoir so the scrubbers were installed on the return lines. The power steering pump and fluids were also changed.

**RESULTS:** The ferrous metal trapped on the magnetic rod represents approximately 40 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.

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