

## Case Study: Gear Oil Magnetic Filtration



### 830E WHEEL MOTORS GE's AC DRIVE SYSTEM

**KENNECOTT ENERGY  
RIO TINTO MINING CORP.**  
Gillette, Wyoming, USA

**APPLICATION:** Wheel Motors Lube Box

**PROBLEM:** High levels of ferrous metal contamination causing premature wear.

Perry Simunek's implementation of the OEI magnetic filters has located another area in need of improvement.

**SOLUTION:** Bob Anderson of Rio Tinto has installed two OEI Magnetic Filters (2RNPT1149ES) in the wheel drive reservoir.

**RESULTS:** After 500 hours of operating time on the 830E, the magnetic filters installed to protect the wheel motors were removed with an ample amount of ferrous metal.

**"The iron counts in both did show a drop."** With the removal of the ferrous metal it is reasonable to state that the wear cycle will be reduced and the gear oil life will be extended.

For further information contact our office or visit our website

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