

Case Study: Gear Oil Magnetic Filtration



KENNECOTT ENERGY Rio Tinto Mining Group

Gillette, Wyoming, USA

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APPLICATION: Chain Case Oil

PROBLEM: High level of ferrous contamination and no filtration resulting in premature wear of the chain, sprockets, bearings and gears.

SOLUTION: Install an OEI magnetic filter rod (3R24HD78) in the chain case inspection plate. The magnetic filter is located in the central splash area for maximum filtration and does not interfere with the operation.

RESULTS: Bob Anderson reported that after 250 hours of operating time a substantial amount of Ferrous Metal was extracted from the chain case oil where there is no filtration thereby reducing wear and extending component and lube oil life.

The photo to the left shows the particles trapped on the OEI magnetic filter. Removal of this contamination from the oil will reduce wear on the chain sprockets, bearings, seals and wet brakes.

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