

Gear Oil Magnetic Filtration Case Study



LH Side W/Motor



RH Side W/Motor

830E WHEEL MOTOR

Hope Downs MEM

Rio Tinto Iron Ore Group

Australia

November 2008

APPLICATION: GE's 787 Drive system wheel motor

PROBLEM: High levels of metal contamination in the gear oil as a result of inadequate filtration causing premature wear.

SOLUTION: Installation of OEI Magnetic Filters (2RNPT1149ES) in place of the manufacturers' magnetic drain plugs in the wheel motor sumps.

RESULTS: The trends for Fe show a significant drop after the installation of the OEI Magnetic Filter from 105ppm to 20ppm and 85ppm to 20ppm. As of the last sample taken, both sumps are now at 5ppm Fe.

After 1748hrs the magnetic filters were inspected and the following was found... (see photos LH & RH)

For further information contact our office or visit our website

www.OneEyeIndustries.com

