



**FILTER  
TECHNOLOGY**

cleaner fluids mean better business

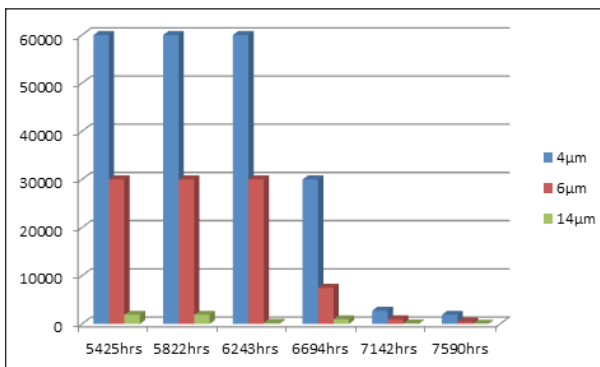
**FIELD INSTALLATION**

Filtration and Contamination Control Specialists

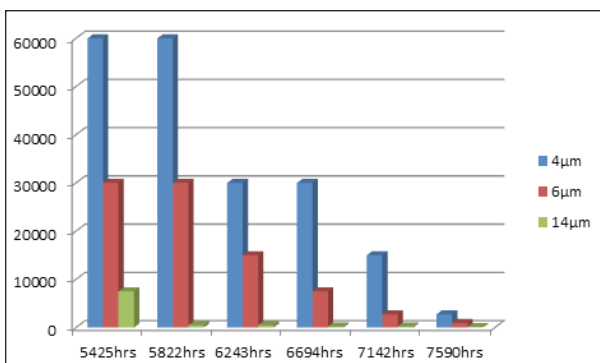


# Komatsu 830E On-Board Wheel Motor Filtration

## Coal and Allied/ Rio Tinto Mount Thorley/ Warkworth Operations



Left gear set wear metals



Right gear set wear metals

Filter Technology were contacted by Coal and Allied/ Rio Tinto Mount Thorley/ Warkworth Operations in regard to filtering Electric Final Drive gear set oil on-board their Komatsu 830E truck fleet.

Filter Technology provided a solution by adding a depth media filtration system to each wheel motor gear set by adding a complete automatic on-board filter system. The contamination levels had been high for a prolonged period in both gear sets.

MTW installed the units with the aid of filter technology. After the filter units were commissioned the contamination levels were reduced by 95% in the 4 µm range, 96% in the 6 µm range and then 98% in the 14 µm range over two service periods.

The results achieved so far are on track to allow the realisation of extension of oil hours from OEM recommended 4000 hrs to condition based replacement at 10,000 hrs, this is achieved by a strict sampling process and by the routine maintenance of the FTA filtration units.

The improved oil cleanliness will have a direct impact by increased componentry life and machine reliability and with savings on operational costs, new oil, waste oil streams, reduced downtime, and maintenance costs will also have a significant reduction in the mines environmental impact.



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