



**FILTER
TECHNOLOGY**

cleaner fluids mean better business

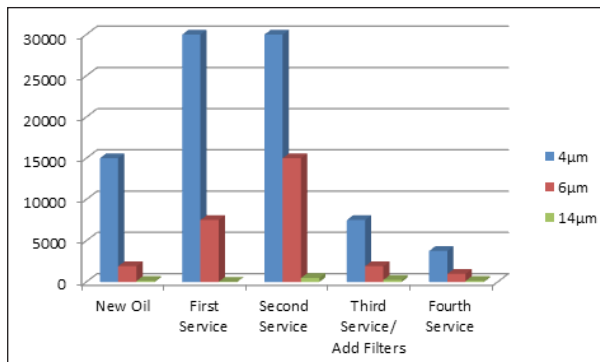
FIELD INSTALLATION

Filtration and Contamination Control Specialists

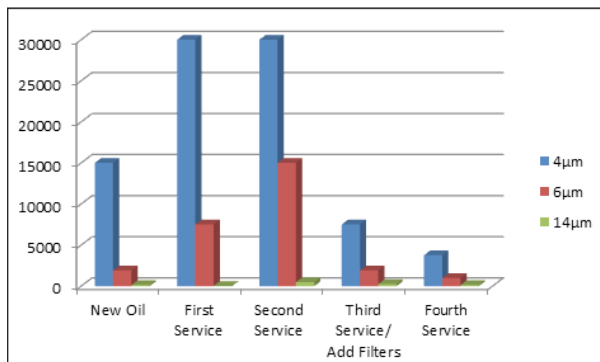


Liebherr T282C Wheel Motor Filtration

Hunter Valley New South Wales Coal Mining Operation



Left gear set wear metals



Right gear set wear metals

Filter Technology were initially contacted by a Hunter Valley coal mining company in regard to filtering electric final drive gear set oil on-board their Liebherr T282C truck fleet.

Filter Technology provided a solution by adding a depth media filtration system to each wheel motor gear set by utilising the on-board filter system that is fitted to the trucks as standard.

The contamination levels were on the increase in both gear sets. The company installed the units with the aid of Filter Technology. After the filter units were commissioned the contamination levels were reduced by 87.5% in the 4 µm range, 87% in the 6 µm range and then 75% in the 14 µm range.

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 8000 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 mine's environmental impact.



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