



Liebherr 996 Face Shovel Oil Filtration: Griffin Coal, Western Australia

Liebherr informed Griffin Coal that they had to reduce their particle count in their 996 Face Shovel.



Griffin Coal contacted Equipment Placement, Filter Technology Australia's representative in Western Australia. They constructed a mobile unit to do the job while the machine was on a programmed shutdown. The shutdown allowed only 12 hours to circulate the 4,000 litres in the hydraulic system.

Before running the hydraulic oil through six FMO4s at 20 litres per minute, results indicate (sample 39895) the ISO of the oil to be 20/17. After filtration sample 39896 indicates the ISO of the oil at 17/13, a 90% reduction in particulate contamination.

A reduction in wear metals was also achieved with a 25% reduction in Silicon, 33% reduction in Iron and 53% reduction in copper.

Griffin Coal have put forward a justification to purchase the unit used here with the ultimate aim being to have fixed units on all machines.



