



**FILTER
TECHNOLOGY**

cleaner fluids mean better business

CASE STUDY

Mining

Case No : 2 - 6 - 26

Hitachi 5500 Hydraulic System : Drayton Coal

Drayton Coal - Hitachi 5500

Drayton's proactive maintenance program has seen them look at many ways to lower operating costs. Part of this program was to look at oil cleanliness levels entering the machines and continued that monitoring once in service with the view to lower ISO levels in their equipment.

The Hitachi 5500 was fitted with Filter Technology's JQ 440 by-pass system flowing at 16LPM.

A sample was taken of the oil entering the filters at the time of installation which would indicate the hydraulic systems overall cleanliness levels was at ISO 16/12. A sample was then taken on the outlet side of the filters which indicates the oil being returned to the tank at ISO 15/11. A reduction in particulate contamination of 68%.



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Oil Test

This Report No:

204,574

Date	-	-	-	-	16-Dec-03	17-Dec-03
Report No	-	-	-	-	204,573	204,574
Meter Reading	-	-	-	-	0hrs	0hrs
Oil Hrs	-	-	-	-	-	24
Oil Changed	-	-	-	-	No	No

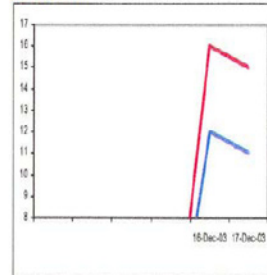
Client: Filter Technology Australia Pty Ltd
Attention To: PHILLIP MARHEINE - 71 Racecourse Road, Rutherford
Machine: Drayton Drayton Coal
Sample Location: Ex 5500 Hyd Oil
Oil Type: SHELL TELLUS 46

Particle Analysis

Limit

> 4 um Count					10368	7334
> 6 um Count					438	160
> 10 um Count					79	25
> 14 um Count					30	11
> 21 um Count					6	3
> 25 um Count					2	
> 38 um Count						
> 70 um Count						

ISO 4406 Trend



Comment

Solid particle contamination has improved after filtration.

Cleanliness Analysis

ISO-4406 6um | 14um
 Water Content ppm

Limit

-/-	-/-	-/-	-/-	-/-	16/12	15/11

