



**FILTER  
TECHNOLOGY**

cleaner fluids mean better business

**CASE STUDY**

**Hydraulics**

Case No : 2 - 6 - 26

## Proactive Maintenance Program, Hitachi 5500 : Drayton Coal

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

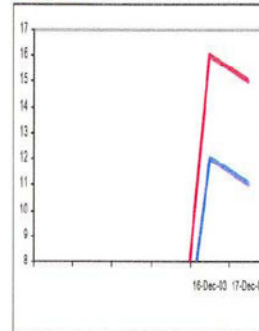
Client: Filter Technology Australia Pty Ltd  
 Attention To: PHILLIP MARHEINE - 71 Racecourse Road, Rutherford  
 Machine: Drayton Drayton Coal  
 Sample Location: Ex 5500 Hyd Oil  
 Oil Type: SHELL TELLUS 46

**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**

Limit

ISO-4406 6um / 14um	-	-	-	-	16/12	15/11
Water Content ppm						

