



**FILTER  
TECHNOLOGY**

cleaner fluids mean better business

**CASE STUDY**



**Mining**

Case No : 2 - 6 - 10

**Caterpillar Final Drives : Drayton Coal - Hunter Valley, New South Wales**

**Hunter Valley NSW**

Coal companies are looking at ways to better manage contamination in their finaldrives and wheel motor oils.

As part of that process Drayton Coal purchased a FM1040T to filter their Cat finaldrives. Drayton understands the importance to deliver clean oil to the finaldrive is as critical as maintaining that cleanliness through the oils life.



The oil report below indicates the 600 litres of oil out of the drums was at ISO 22/18 and after four hours kidney looping through the FM1040T the oil was delivered to the finaldrive at ISO 15/11 a reduction of 89% in particulate contamination, the microscopic patches give a better understanding of the amount of contamination that has been removed from the oil.

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Singleton NSW 2330  
Phone: (02) 6571-1444  
Facsimile: (02) 6571-4433  
Web: www.oiltest.com.au



This Report No:

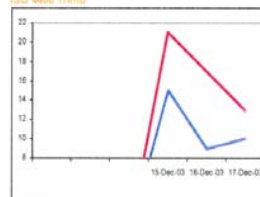
			204.572		
Date			15-Dec-03	16-Dec-03	17-Dec-03
Report No.	-	-	204.570	204.571	204.572
Meter Reading			0hrs	0hrs	0hrs
Oil Hrs	-	-	Before	2	5
Oil Changed			No	No	No

Client: Filter Technology Australia Pty Ltd  
Attention To: PHILLIP MARHEINE - 71 Racecourse Road, Rutherford  
Machine: Drayton Drayton Coal  
Sample Location: Final Drive tank  
Oil Type: SHELL DONNAX TC 60

Particle Analysis

Limit	15-Dec-03	16-Dec-03	17-Dec-03
> 4 um Count	43654	23586	5026
> 6 um Count	17325	928	76
> 10 um Count	1690	9	9
> 14 um Count	283	4	7
> 21 um Count	31	2	3
> 25 um Count	9	1	2
> 38 um Count			
> 70 um Count			

ISO 4406 Trend



Comment

Solid particle contamination has improved significantly after filtration.

Cleanliness Analysis

Limit	15-Dec-03	16-Dec-03	17-Dec-03
ISO-4406 Sum 14um	21115	1719	13110
Water Content ppm	500	0	0

