



FILTER TECHNOLOGY

cleaner fluids mean better business

CASE STUDY

Mining

Case No : 2 - 6 - 18

Caterpillar 5230 Excavator Hydraulic System : Muswellbrook Coal, New South Wales

Muswellbrook Coal

Muswellbrook Coal hired a FM 1640 to clean their Caterpillar 5230 Excavator Hydraulic system, the unit was run over a weekend shutdown for two days, samples were taken before and after filtering.

The report attached indicates the oil at ISO 20/17 before filtering and after two days connected to the FM1640 had reduced the particulate contamination to ISO 17/15 a 86% reduction.

The patch test also indicates the reduction in contamination achieved using this unit.



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Singleton NSW 2330
Phone: (61) 6571-1444
Facsimile: (61) 6571-4433
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This Report No:

200.716

Date
Report No
Meter Reading
Oil Hrs
Oil Changed

	10-Sep-03	12-Sep-03
Report No	200.714	200.716
Meter Reading	35760hrs	35760hrs
Oil Hrs	-	-
Oil Changed	No	No

Client

Muswellbrook Coal Co Ltd

Attention To:

OIL TEST - Coal Road, MUSWELLBROOK

Machine:

105 CAT 5230 Excavator

Sample Location:

Hydraulics

Oil Type:

CALTEX RANDO HD 68 - GREEN

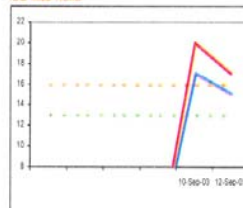
Particle Analysis

Limit

> 4 um Count
> 6 um Count
> 10 um Count
> 14 um Count
> 21 um Count
> 25 um Count
> 38 um Count
> 70 um Count

	10-Sep-03	12-Sep-03
> 4 um Count	37688	5005
> 6 um Count	9673	1288
> 10 um Count	2151	495
> 14 um Count	936	289
> 21 um Count	229	122
> 25 um Count	94	54
> 38 um Count	8	4
> 70 um Count	3	2

ISO 4406 Trend



Comment

Sample cleanliness has improved significantly after filtration @ 17/15. Further filtration may be desirable.

Clearance Analysis

Limit

ISO-4406 6um / 14um
Water Content ppm

	20/17	17/15
ISO-4406 6um / 14um	20/17	17/15
Water Content ppm	-	-

