Equipment Hydraulic System : Allied Plant Services

Allied Plant Services

Using an FM502 filter buggy to evaluate the benefits of this style of filtration in an attempt to reduce the particulate contamination in their equipment hydraulics system. This evaluation was used to understand the benefits of lower particle counts which leads to extension in component life and machine availability.

The FM 502 was connected to the machine for an eight hour period, oil samples were taken before and after filtration.

The oil analysis attached indicates the oil before filtering was at an ISO 19/13 and after eight hours the after sample indicates an ISO 12/9 a reduction of 96% in particulate contamination.
The oil samples pictured above indicate the visual differences in the two samples.

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

Oil Test

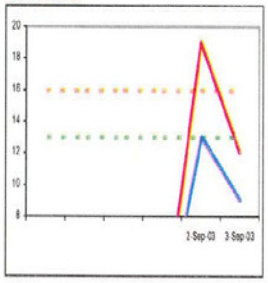
This Report No: 198,886

					Before	After
Date					2-Sep-03	3-Sep-03
Report No.	-	-	-	-	198,885	198,886
Meter Reading	-	-	-	-	0hrs	0hrs
Oil Hrs	-	-	-	-	-	-
Oil Changed					No	No

Client: Filter Technology Australia Pty Ltd
Attention To: PHILLIP MARHEINE - 71 Racecourse Road, Rutherford
Machine: ALLIED Allied Mine Services
Sample Location: Hydraulics
Oil Type: HYDRAULIC OIL 68

Particle Analysis	Limit						
> 4 um Count						34280	1090
> 6 um Count						4966	21
> 10 um Count						236	5
> 14 um Count						52	3
> 21 um Count						15	
> 25 um Count						9	
> 38 um Count						3	
> 70 um Count						2	
Cleanliness Analysis	**Limit**						
ISO-4406 6um \ 14um	16\13	-\-	-\-	-\-	-\-	19\13	12\9
Water Content ppm	100					132.4	48.0

ISO 4406 Trend



Comment

Solid particle contamination has improved significantly after filtration.