



Hydraulics, FM 502 : 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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Oil Test

This Report No: 198,886

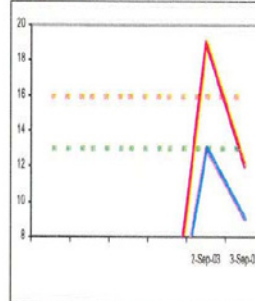
	198,886				Before	After
Date					2-Sep-03	3-Sep-03
Report No.	-	-	-	-	198,886	198,886
Meter Reading	-	-	-	-	0hrs	0hrs
Oil Hrs	-	-	-	-	-	-
Oil Changed					No	No

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

Particle Analysis

Limit	Before	After
> 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	

ISO 4406 Trend



Comment

Solid particle contamination has improved significantly after filtration.

Cleanliness Analysis

Limit	Before	After
ISO-4406 Gum 14um	16113	1913
Water Content ppm	100	132.4
		48.0

