



## 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

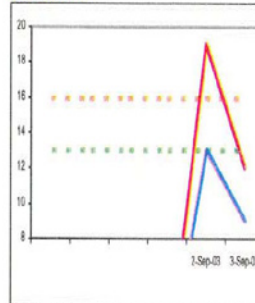
	198,886				Before	After
Date					2-Sep-03	3-Sep-03
Report No.	-	-	-	-	198,886	198,886
Meter Reading	-	-	-	-	0hrs	0hrs
Oil Hrs	-	-	-	-	-	-
Oil Changed					No	No

**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 1 14um	16113	1913
Water Content ppm	100	132.4
		48.0

