

Underground Machinery Hydraulic Systems : Waratah Engineering, Newcastle, New South Wales

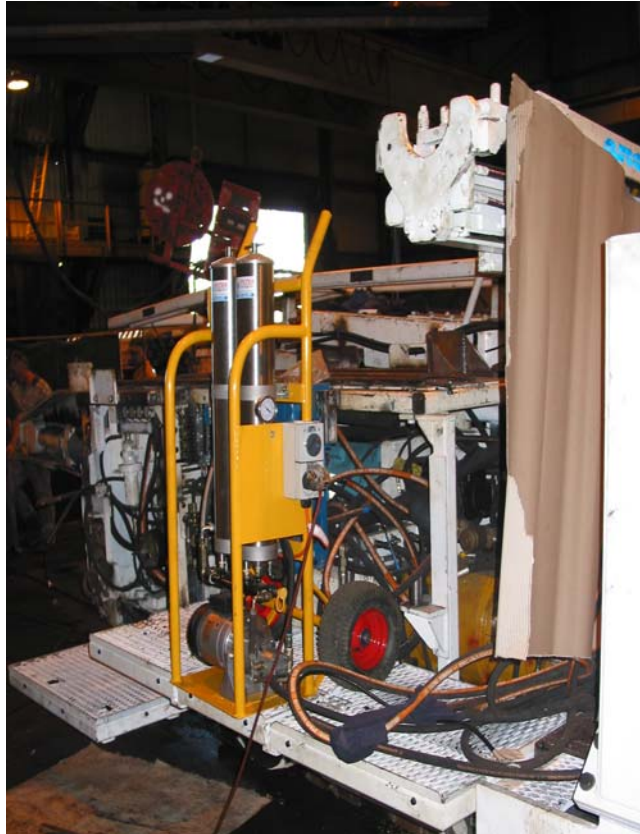
Waratah Engineering

This Newcastle based underground machinery supplier is keen to insure that when their equipment is delivered to their customers it arrives with the oil at acceptable ISO cleanliness levels.

All machines are test run before delivery, after the test run was completed Waratah Engineering hired Filter Technology's FM 502 filter buggy with the view to assist them in achieving the cleanliness levels required.

The oil analysis report below indicates the oil at ISO 21/17 after the miners test run, the buggy was connected and run and has reduced the oil to an ISO 14/11.

A reduction of 96% in particulate contamination.



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Singleton NSW 2330
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This Report No:

Date	-	-	-	28-Nov-03	29-Nov-03	30-Nov-03
Report No.	-	-	-	203,866	203,867	203,868
Meter Reading	-	-	-	0hrs	0hrs	0hrs
Oil Hrs	-	-	-	-	1	8
Oil Changed	-	-	-	No	No	No

Client: Filter Technology Australia Pty Ltd
Attention To: PHILLIP MARHEINE - 71 Racecourse Road, Rutherford
Machine: WARENG Waratah Engineering
Sample Location: Hydraulics
Oil Type: ISO 68

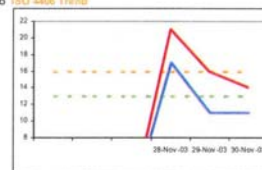
Particle Analysis

Limit	28-Nov-03	29-Nov-03	30-Nov-03
> 4 um Count	42374	3470	1395
> 6 um Count	13488	337	148
> 10 um Count	1968	41	29
> 14 um Count	659	13	13
> 21 um Count	123	2	4
> 25 um Count	46	1	2
> 38 um Count	5	-	-
> 70 um Count	3	-	-

Cleanliness Analysis

Limit	28-Nov-03	29-Nov-03	30-Nov-03
ISO-4406 5um / 14um	21/17	16/11	14/11
Water Content ppm	56	32	31

ISO 4406 Trend



Comment

After 8 hours filtration. Solid particle contamination has improved significantly.

