



FILTER TECHNOLOGY

cleaner fluids mean better business

CASE STUDY



Hydraulics

Case No : 2 - 6 - 20

Hydraulics, Underground Machinery : Waratah Engineering, NSW

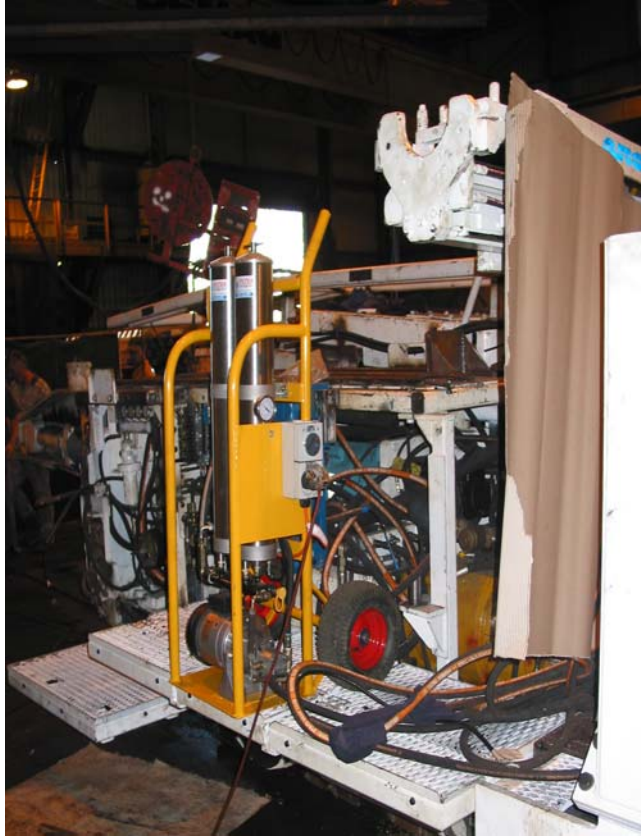
Waratah Engineering

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.



4 Walter Street | PO Box 480
Singleton NSW 2230
Phone: (02) 6571-1444
Facsimile: (02) 6571-4433
Web: www.oiltest.com.au

Oil Test

This Report No:

| | | | | | |
|---------------|---|---|-----------|-----------|-----------|
| 203,868 | | | 28-Nov-03 | 29-Nov-03 | 30-Nov-03 |
| Date | - | - | 28-Nov-03 | 29-Nov-03 | 30-Nov-03 |
| Report No. | - | - | 203,868 | 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

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

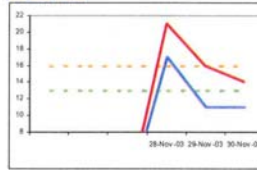
| | | | | | |
|-------|--|--|-------|------|------|
| Limit | | | | | |
| | | | 42374 | 3470 | 1395 |
| | | | 13488 | 337 | 148 |
| | | | 1968 | 41 | 29 |
| | | | 659 | 13 | 13 |
| | | | 123 | 2 | 4 |
| | | | 46 | 1 | 2 |
| | | | 5 | | |
| | | | 3 | | |

cleanliness Analysis

ISO-4406 6um / 14um
Water Content ppm

| | | | | | |
|-------|---|---|---|-------|-------|
| Limit | | | | | |
| | + | + | + | 21/17 | 16/11 |
| | | | | 56 | 32 |
| | | | | | 31 |

ISO 4406 Trend



Comment

After 8 hours filtration. Solid particle contamination has improved significantly

