

LIEBHERR LH40M 156305-1215 - Diesel Engine

Sample No: LH

Oil Type: NOT GIVEN

Sample Information

| Sample Number | LH | LH0278468 | |
|---------------|-------------|-------------|------|
| Sample Date | 09 May 2024 | 20 Feb 2024 | |
| Machine Hours | 1010 | 536 | |
| Oil Hours | 0 | 0 | |
| Oil Changed | Changed | Changed | |
| Sample Status | ABNORMAL | MARGINAL | |
| | | | |

| Oil Condition | | | | | | | | | |
|----------------|-----|----------|------|--|--|--|--|--|--|
| Visc @ 100°C | cSt | <u> </u> | 11.8 | | | | | | |
| Oxidation (PA) | % | 96 | 213 | | | | | | |
| ada - | | | | | | | | | |

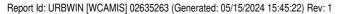
| Contamination | | | | | |
|----------------|-----|--------------|-----|--|--|
| Water | % | NEG | NEG | | |
| Soot % | % | 0 🔘 | 0 | | |
| Nitration (PA) | % | 86 | 105 | | |
| Sulfation (PA) | % | 64 | 112 | | |
| Glycol | % | NEG | NEG | | |
| Fuel | % | 0.6 | 0 2 | | |
| Silicon | ppm | 6 | 07 | | |
| Sodium | ppm | 04 | 0 2 | | |
| Potassium | ppm | () <1 | 03 | | |

Woar Motals

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| | | 3 | | |
|------------|-----|-------------|------|------|
| Iron | ppm | 05 | 0 10 | |
| Copper | ppm | 125 | 95 | |
| Lead | ppm | 03 | 6 | |
| Tin | ppm | 0 () | ○ <1 | |
| Aluminum | ppm | 01 | 2 | |
| Chromium | ppm | ○ <1 | 01 | |
| Molybdenum | ppm | 0 57 | 0 46 | |
| Nickel | ppm | 0 🔘 | ○ <1 | |
| Titanium | ppm | 0 | 0 | |
| Silver | ppm | 0 () | 0 | |
| Manganese | ppm | <1 | <1 | |
| Vanadium | ppm | 0 | 0 | |
| | | | | |

| Additives | | | | | |
|-----------|---------------------------------|---|---|---|--|
| ppm | 867 | 0 1355 | | | |
| ppm | 0 1062 | 910 | | | |
| ppm | 0 1132 | 780 | | | |
| ppm | 962 | 671 | | | |
| ppm | 04 | 29 | | | |
| ppm | 0 39 | 0 100 | | | |
| | ppm ppm ppm ppm ppm | ppm 867 ppm 1062 ppm 1132 ppm 962 ppm 4 | ppm 867 1355 ppm 1062 910 ppm 1132 780 ppm 962 671 ppm 4 29 | ppm 867 1355 ppm 1062 910 ppm 1132 780 ppm 962 671 ppm 4 29 | |



Urban Mine

72 Rothwell Rd. Winnipeg, MB CA R3P 2H7 Contact: SERVICE

T: (204)774-0192 F:

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

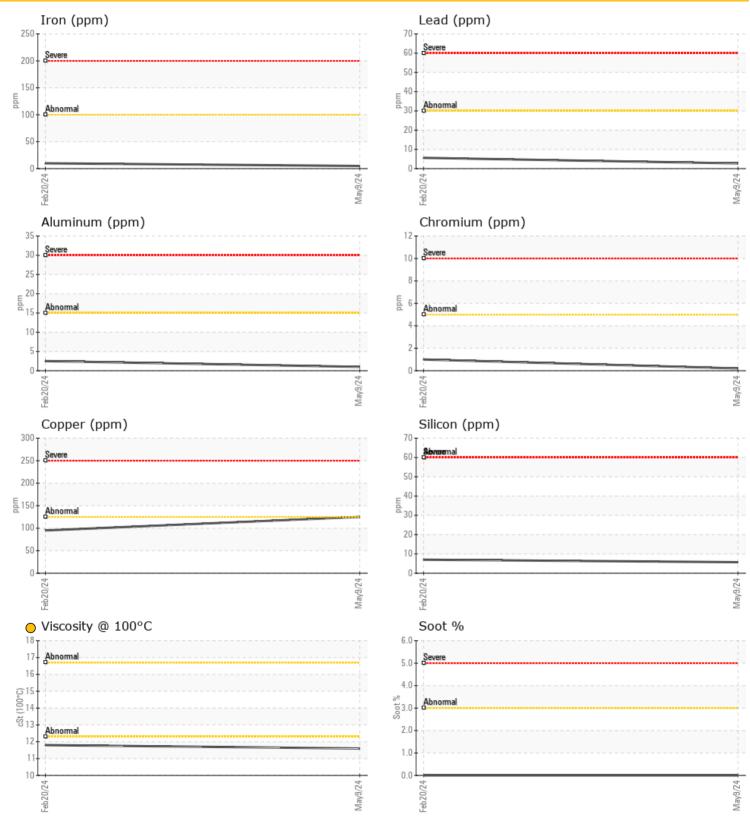


CONSTRUCTION EQUIPMENT



Graphs

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Report Id: URBWIN [WCAMIS] 02635263 (Generated: 05/15/2024 15:45:34) Rev: 1

Submitted By: Vincent Blanchette Page 2 of 2