

LIEBHERR LH60M 107906 - Diesel Engine

0 11.7

104

Sample No: LH

Oil Type: DIESEL ENGINE OIL

SAMPLE INFORMATION

| Sample Number | LH | LH0250242 | | | |
|---------------|-------------|-------------|--|--|--|
| Sample Date | 12 Apr 2023 | 09 Jan 2023 | | | |
| Machine Hours | 3721 | 3715 | | | |
| Oil Hours | 0 | 0 | | | |
| Oil Changed | N/A | Not Changd | | | |
| Sample Status | MARGINAL | ABNORMAL | | | |
| | | | | | |
| | | | | | |

Visc @ 100°C Oxidation (PA)

ation (PA) %

cSt

| Water | % | NEG | NEG | | |
|----------------|-----|--------------|-------|--|--|
| Soot % | % | 0 () | 0 | | |
| Nitration (PA) | % | 130 | 129 | | |
| Sulfation (PA) | % | 80 | 76 | | |
| Glycol | % | NEG | NEG | | |
| Fuel | % | 0 2.4 | 0 2.4 | | |
| Silicon | ppm | 0 16 | 0 13 | | |
| Sodium | ppm | 0 5 | 0 4 | | |
| Potassium | ppm | 0 (| 8 | | |

0 11.5

106

WEAR METALS

| Iron | ppm | 23 | 0 19 | |
|------------|-----|-------------|------|------|
| Copper | ppm | 0 16 | 0 15 | |
| Lead | ppm | 04 | 03 | |
| Tin | ppm | ◯ <1 | ○ <1 | |
| Aluminum | ppm | 04 | 0 4 | |
| Chromium | ppm | ○ <1 | ○ <1 | |
| Molybdenum | ppm | 20 | 0 18 | |
| Nickel | ppm | ○ <1 | 0 0 | |
| Titanium | ppm | <1 | <1 | |
| Silver | ppm | ◯ <1 | 0 | |
| Manganese | ppm | 0 2 | 1 | |
| Vanadium | ppm | 0 | 0 | |
| | | | | |

| IVES | | | | |
|------|---------------------------------|--|---|---|
| ppm | 0 1297 | 0 1273 | | |
| ppm | 861 | 843 | | |
| ppm | 958 | 905 | | |
| ppm | 874 | 846 | | |
| ppm | 3 | 2 | | |
| ppm | 0 34 | 34 | | |
| | ppm ppm ppm ppm ppm | ppm 0 1297 ppm 861 ppm 0 958 ppm 0 874 ppm 0 3 | ppm 1297 1273 ppm 861 843 ppm 958 905 ppm 874 846 ppm 3 2 | ppm 1297 1273 ppm 861 843 ppm 958 905 ppm 874 846 ppm 3 2 |





LIEBHERR CANADA

10 LYNDS AVENUE MONCTON, NB CA E1H 3K2 Contact: Bryan Wood bryan.wood@liebherr.com T: F: (506)854-2940

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The condition of the oil is acceptable for the time in service.

Depot:LIEMONUnique No:5564147Signed:Kevin MarsonReport Date:17 Apr 2023

Report Id: LIEMON [WCAMIS] 02551132 (Generated: 03/20/2024 15:30:50) Rev: 1

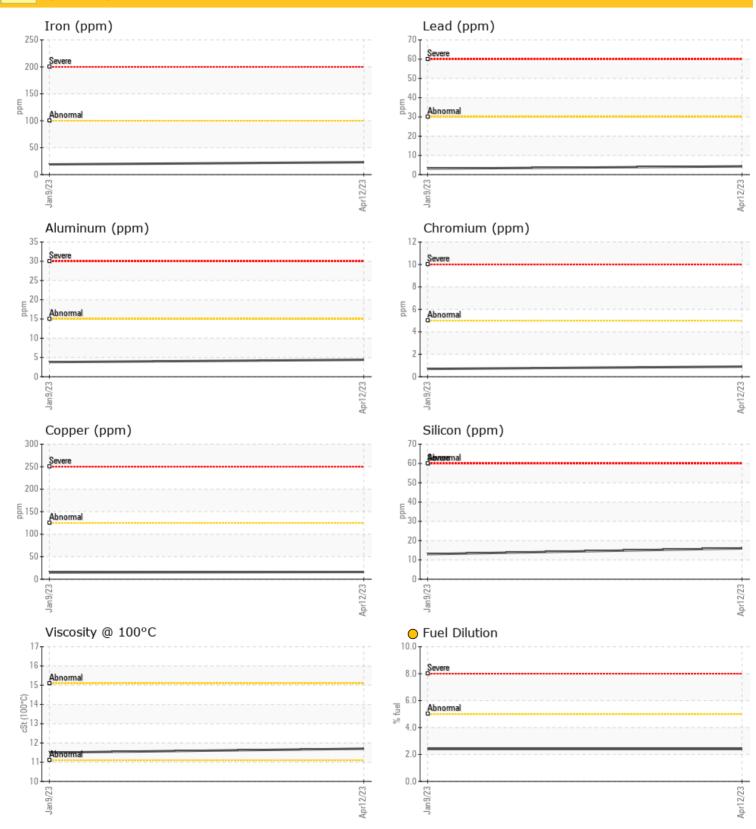
Submitted By: Olivier Galimi

CONSTRUCTION EQUIPMENT



GRAPHS

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Submitted By: Olivier Galimi