



2018.03.8865 - Diesel Engine

Sample No: LH0274480

Oil Type: NOT GIVEN

SAMPLE INFORMATION

| Sample Number | LH0274480 | | |
|---------------|-------------|------|--|
| Sample Date | 05 Sep 2023 | | |
| Machine Hours | 0 | | |
| Oil Hours | 0 | | |
| Oil Changed | N/A | | |
| Sample Status | NORMAL | | |

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| ۲ | OIL CO | NDITION | |
|----------|--------|---------|--|
| Visc @ 1 | 00°C | cSt | |

Oxidation (PA)

| - 1 | |
|-----|--|
| | |
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| | |

| CON' | TAMIN/ | ATION | | |
|----------------|--------|-------|------|--|
| Soot % | % | 0 | | |
| Nitration (PA) | % | 115 | | |
| Sulfation (PA) | % | 67 | | |
| Glycol | % | NEG | | |
| Fuel | % | 0 1.2 | | |
| Silicon | ppm | 08 | | |
| Sodium | ppm | 01 | | |
| Potassium | ppm | 6 | | |

WEAR METALS

| Iron | ppm | 0 12 | | |
|------------|-----|-------------|------|--|
| Copper | ppm | 0 4 | | |
| Lead | ppm | ○ <1 | | |
| Tin | ppm | 0 | | |
| Aluminum | ppm | 04 | | |
| Chromium | ppm | ○ <1 | | |
| Molybdenum | ppm | 0 46 | | |
| Nickel | ppm | 0 | | |
| Titanium | ppm | 0 | | |
| Silver | ppm | ○ <1 | | |
| Manganese | ppm | <1 | | |
| Vanadium | ppm | 0 | | |

| | DITIVES | | | |
|------------|---------|------------|------|--|
| Calcium | ppm | 0 1290 | | |
| Magnesium | ppm | 0 891 | | |
| Zinc | ppm | 0 821 | | |
| Phosphorus | ppm | 665 | | |
| Barium | ppm | 0 🔘 | | |
| Boron | maa | 0 38 | | |

LIEBHERR CANADA LTD. - REMAN

1015 SUTTON DRIVE BURLINGTON, ON CA L7L 5Z8 Contact: Jeff Carter jeff.carter@liebherr.com T: (905)319-9222 F: (905)319-6622

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Light fuel dilution occurring. No other contaminants were detected 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.

Depot: REMAN Unique No: 5633689 Signed: Kevin Marson **Report Date:** 07 Sep 2023

Report Id: REMAN [WCAMIS] 02580629 (Generated: 09/07/2023 10:07:13) Rev: 1

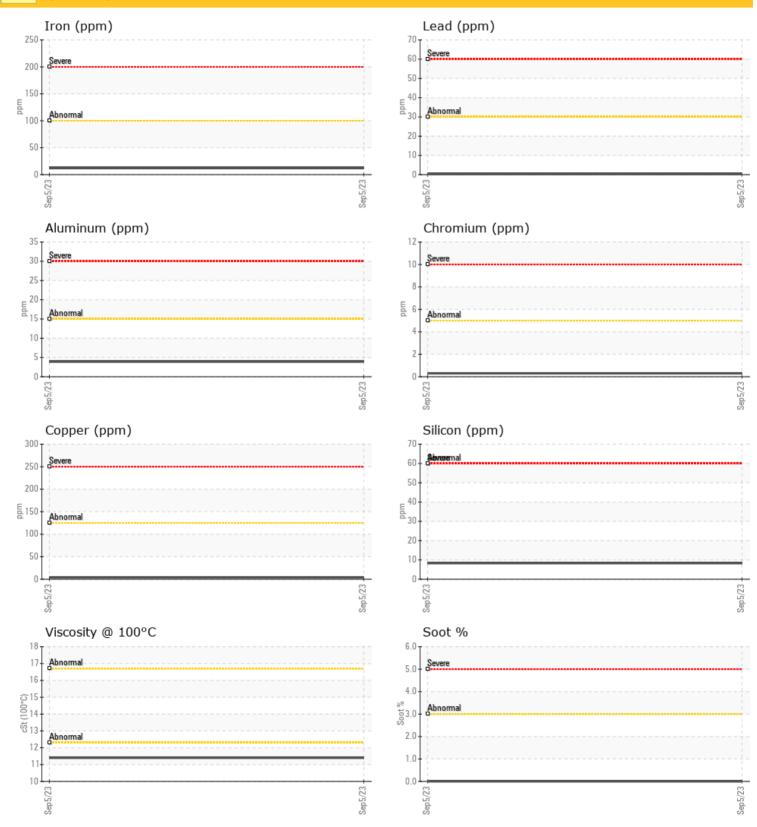
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CONSTRUCTION EQUIPMENT



GRAPHS

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