CONSTRUCTION EQUIPMENT

LIEBHERR LH40M 1215-149851 - Diesel Engine

0 12.0 0 5.1

202

Sample No: LH0273628

Oil Type: DIESEL ENGINE OIL SAE 5W30

Sample Information

| Sample Number | LH0273628 | | |
|---------------|-------------|------|--|
| Sample Date | 14 May 2024 | | |
| Machine Hours | 549 | | |
| Oil Hours | 549 | | |
| Oil Changed | N/A | | |
| Sample Status | ABNORMAL | | |

| Oil Co | Oil Condition | | |
|------------------|---------------|--|--|
| Visc @ 100°C | cSt | | |
| Base Number (BN) | mg KOH/g | | |
| Oxidation (PA) | % | | |

- 1

Manganese

Vanadium

ppm

ppm

| Contamination | | | | | | |
|----------------------|-----|----------|--|--|--|--|
| Water | % | NEG | | | | |
| Soot % | % | 0.1 | | | | |
| Nitration (PA) | % | 99 | | | | |
| Sulfation (PA) | % | 108 | | | | |
| Glycol | % | NEG | | | | |
| Fuel | % | <1.0 | | | | |
| Silicon | ppm | 0 9 | | | | |
| Sodium | ppm | 3 | | | | |
| Potassium | ppm | 0 5 | | | | |
| | | | | | | |

(•) Wear Metals Iron ppm 8 🔘 Copper 0 216 ppm <mark>()</mark> <1 Lead ppm Tin 01 ppm Aluminum 3 ppm Chromium ○ <1 ppm Molybdenum 0 43 ppm Nickel 0 ppm Titanium 0 <1 ppm Silver 0 ppm

| Additives | | | | | | | |
|------------|-----|--------------|--|--|--|--|--|
| Calcium | ppm | 0 1326 | | | | | |
| Magnesium | ppm | 912 | | | | | |
| Zinc | ppm | 854 | | | | | |
| Phosphorus | ppm | 0 708 | | | | | |
| Barium | ppm | 26 | | | | | |
| Boron | ppm | 0 103 | | | | | |

01

0





STAINLESS STEL MIDWEST 2615 KY-146 LAGRANGE, KY US 40031 Contact: Service Manager

т: F:

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: Unique No: Signed: **Report Date:** STALAGKY 11087311 Don Baldridge 21 Jun 2024 Submitted By: ?

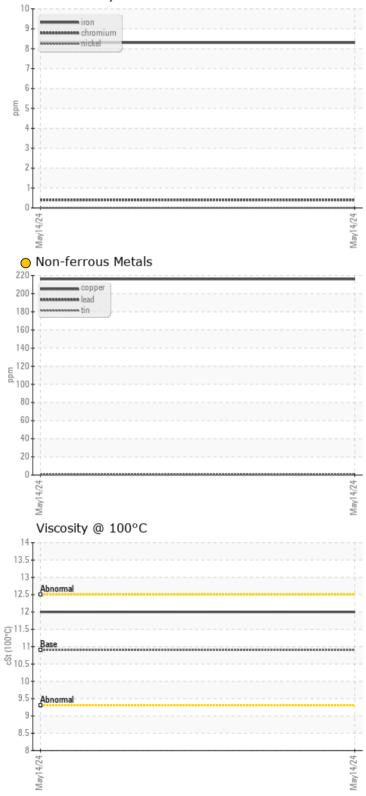
CONSTRUCTION EQUIPMENT

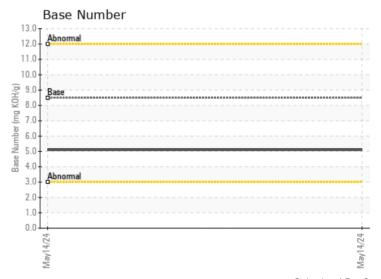


Ø

Ferrous Alloys

Graphs





Report Id: STALAGKY [WUSCAR] 06214447 (Generated: 06/21/2024 13:58:54) Rev: 1