CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 1216-118289 - Swing Drive

Sample No: LH06135807

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Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus

Additives

ppm

ppm

ppm

ppm

ppm

ppm

Oil Type: GEAR OIL SAE 80W90

Sample Information

| Sample Number | LH06135807 | LH05693566 | LH05370573 | |
|---------------|-------------|-------------|-------------|--|
| Sample Date | 31 Mar 2024 | 13 Nov 2022 | 10 Oct 2021 | |
| Machine Hours | 5050 | 0 | 1635 | |
| Oil Hours | 0 | 0 | 0 | |
| Oil Changed | Not Changd | N/A | N/A | |
| Sample Status | NORMAL | NORMAL | NORMAL | |
| | | | | |



| Contamination | | | | | | |
|---------------|-----|-----|-----|------|--|--|
| Water | % | NEG | NEG | NEG | | |
| Silicon | ppm | 09 | 07 | 0 17 | | |
| Sodium | ppm | 07 | 0 1 | 6 | | |
| Potassium | ppm | 03 | 0 | 0 1 | | |

| Ä | | | | | |
|------------|-------------------------|--------------------|------|-------|--|
| Wed Wed | <mark>ır Metal</mark> s | 5 | | | |
| Iron | ppm | 228 | 60 | ◯ 159 | |
| Copper | ppm | 0 183 | ◯ 33 | 0 49 | |
| Lead | ppm | 0 (| 0 | ◯ <1 | |
| Tin | ppm | 0 10 | 01 | 2 | |
| Aluminum | ppm | ○ <1 | ◯ <1 | 5 | |
| Chromium | ppm | <mark>()</mark> <1 | 0 | ◯ <1 | |
| Molybdenum | ppm | 0 (| ◯ <1 | <1 | |
| Nickel | ppm | ○ <1 | 0 | ◯ <1 | |
| Titanium | ppm | 0 | 0 | <1 | |
| Silver | ppm | 0 | 0 | <1 | |
| Manganese | ppm | 3 | ◯ <1 | 2 | |
| Vanadium | ppm | 0 | 0 | 0 | |

29

 $\bigcirc 0$

23

0 672

 $\bigcirc 0$

 $\bigcirc 1$

29

20

12

2047

 -- KOVALCHICK CORP

 -- 1060 WAYNE AVENUE

 -- INDIANA, PA

 -- US 15701

 -- Contact: Service Manager

T: F:

Diagnosis

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. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

| Depot: | KOV |
|--------------|------|
| Unique No: | 1095 |
| Signed: | Wes |
| Report Date: | 02 A |

VIND 955272 es Davis Apr 2024 Submitted By: ? Page 1 of 2

0 29

○ <1

0 47

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07

0 2045







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Graphs

Ferrous Alloys 240iron 220 • chromium 200 nickel 180 160 140 튭 120 100 80 60 40 20 0. Mar31/24 0ct10/21 Nov13/22 Non-ferrous Metals 200 copper 180 🛤 lead tin 160 140 120 툡 100 80 60 40 20 0. Nov13/22 -0ct10/21 Mar31/24 Viscosity @ 40°C 200 Abnormal 190 180 170 (40 °C) දු 120 දි Base 140 130 120 Abnormal 110 Mar31/24 -Nov13/22 0ct10/21

Report Id: KOVIND [WUSCAR] 06135807 (Generated: 04/04/2024 21:32:02) Rev: 1