CONSTRUCTION EQUIPMENT

LIEBHERR LH30M 1253-121539 - Swing Drive

Sample No: LH0213361

Oil Type: GEAR OIL LS 80W90

SAMPLE INFORMATION

| Sample Number | LH0213361 | LH0213333 | |
|---------------|-------------|-------------|------|
| Sample Date | 21 Aug 2023 | 08 Sep 2022 | |
| Machine Hours | 3000 | 1000 | |
| Oil Hours | 0 | 0 | |
| Oil Changed | N/A | N/A | |
| Sample Status | NORMAL | SEVERE | |
| | | | |

| OIL CO | NDITION | | | | - |
|-------------|----------------|-------|-----|------|---|
| Visc @ 40°C | cSt | 0 159 | 211 | | |

CONTAMINATION Water % ---1.99 Silicon $\bigcirc 4$ ppm 07 Sodium 05 02 ppm Potassium ppm ○ <1 $\bigcirc 1$

| Ä | | | | |
|------------|----------|--------------|------|------|
| WEA | R METALS | | | |
| Iron | ppm | 513 | 826 | |
| Copper | ppm | 0 149 | 0 47 | |
| Lead | ppm | ○ <1 | 01 | |
| Tin | ppm | 01 | 02 | |
| Aluminum | ppm | 0 | 6 | |
| Chromium | ppm | 04 | 07 | |
| Molybdenum | ppm | ○ <1 | 1 | |
| Nickel | ppm | ○ <1 | 0 | |
| Titanium | ppm | <1 | <1 | |
| Silver | ppm | 0 | 0 | |
| Manganese | ppm | 4 | 8 | |
| Vanadium | ppm | 0 | <1 | |

0 **ADDITIVES** Calcium 486 ppm 13 0 3 Magnesium ppm 70 Zinc 185 ppm 2134 Phosphorus 1351 ppm Barium 0 ppm 0 0 213 Boron ppm 18





KEYSTONE RAIL RECOVERY 70 MARYLAND AVE

JERSEY SHORE, NJ US 17740 Contact: Service Manager

T: F:

Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:KEUnique No:106Signed:DorReport Date:23 /

KEYJER 10616388 Don Baldridge 23 Aug 2023

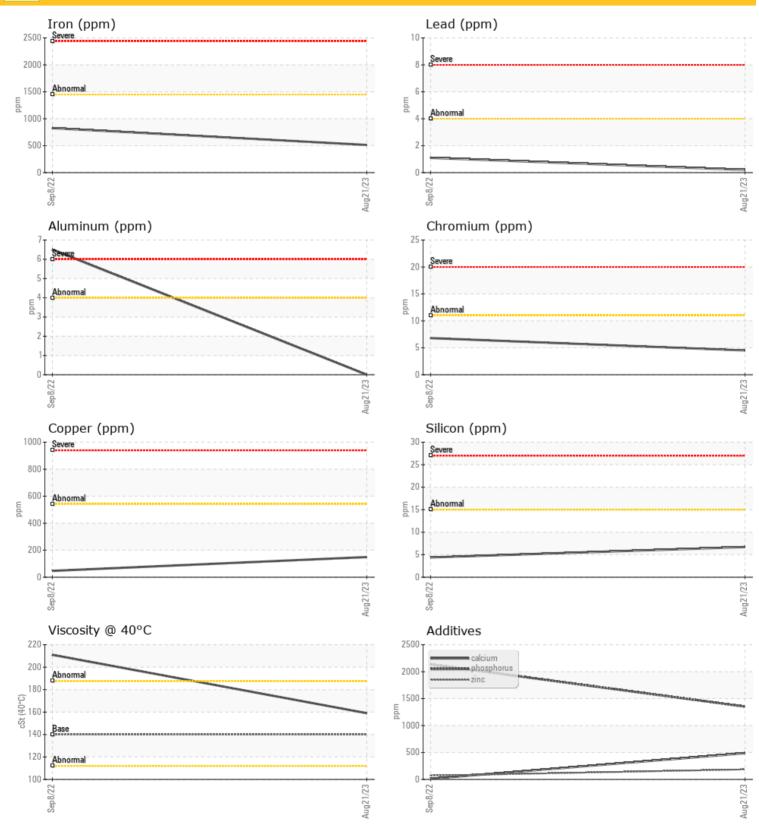
Submitted By: ?

CONSTRUCTION EQUIPMENT



GRAPHS

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Report Id: KEYJER [WUSCAR] 05931117 (Generated: 08/23/2023 20:06:11) Rev: 1