

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L580 1414-56018 - Splitter Box

Sample No: LH06225401

Oil Type: GEAR OIL SAE 80W90



#### Sample Information

|               |             |             |             |             |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LH06225401  | LH06112337  | LH06027238  | LH05836130  |
| Sample Date   | 30 Jun 2024 | 06 Mar 2024 | 05 Dec 2023 | 01 May 2023 |
| Machine Hours | 17000       | 15997       | 0           | 13020       |
| Oil Hours     | 0           | 0           | 15017       | 0           |
| Oil Changed   | Changed     | Changed     | Changed     | Changed     |
| Sample Status | NORMAL      | NORMAL      | NORMAL      | NORMAL      |

**VERSO CORP - QUINNESEC MILL**  
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#### Oil Condition

|             |     |     |     |     |     |
|-------------|-----|-----|-----|-----|-----|
| Visc @ 40°C | cSt | 151 | 154 | 171 | 181 |
|-------------|-----|-----|-----|-----|-----|



#### Contamination

| Water     | %   | NEG | NEG | NEG | NEG |
|-----------|-----|-----|-----|-----|-----|
| Silicon   | ppm | 1   | 3   | 1   | 1   |
| Sodium    | ppm | 0   | 3   | 31  | 3   |
| Potassium | ppm | 2   | <1  | 6   | 0   |



#### Wear Metals

|            |     |    |    |    |    |
|------------|-----|----|----|----|----|
| Iron       | ppm | 11 | 17 | 19 | 18 |
| Copper     | ppm | 4  | 2  | 5  | 3  |
| Lead       | ppm | <1 | 0  | 0  | 0  |
| Tin        | ppm | <1 | <1 | <1 | 0  |
| Aluminum   | ppm | 3  | <1 | 9  | <1 |
| Chromium   | ppm | <1 | <1 | <1 | 0  |
| Molybdenum | ppm | <1 | 0  | 0  | <1 |
| Nickel     | ppm | <1 | 1  | <1 | 0  |
| Titanium   | ppm | <1 | 0  | 0  | 0  |
| Silver     | ppm | <1 | 0  | 0  | 0  |
| Manganese  | ppm | <1 | <1 | <1 | <1 |
| Vanadium   | ppm | <1 | 0  | <1 | 0  |



#### Additives

|            |     |      |      |     |      |
|------------|-----|------|------|-----|------|
| Calcium    | ppm | 172  | 146  | 4   | 64   |
| Magnesium  | ppm | 2    | 4    | <1  | 4    |
| Zinc       | ppm | 311  | 271  | 0   | 342  |
| Phosphorus | ppm | 2098 | 2160 | 143 | 2155 |
| Barium     | ppm | <1   | 0    | 0   | 0    |
| Boron      | ppm | <1   | 0    | 0   | 15   |

#### Diagnosis

Resample at the next service interval to monitor. 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:** VERQUI  
**Unique No:** 11103598  
**Signed:** Don Baldrige  
**Report Date:** 03 Jul 2024



### Graphs

