

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR T55-7 025521-1708 - Diesel Engine

Sample No: LH

Oil Type: DIESEL ENGINE OIL SAE 30



#### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | LH          | --- | --- | --- |
| Sample Date   | 19 Dec 2023 | --- | --- | --- |
| Machine Hours | 430         | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | N/A         | --- | --- | --- |
| Sample Status | ABNORMAL    | --- | --- | --- |

**CONTENEUR ROSE INC.**  
 89 RUE MORANE  
 LAVAL, QC  
 CA H7M 1R5  
 Contact: Service Manager



#### OIL CONDITION

|                |     |      |     |     |     |
|----------------|-----|------|-----|-----|-----|
| Visc @ 100°C   | cSt | 12.3 | --- | --- | --- |
| Oxidation (PA) | %   | 46   | --- | --- | --- |

T:  
F:



#### CONTAMINATION

|                |     |      |     |     |     |
|----------------|-----|------|-----|-----|-----|
| Water          | %   | NEG  | --- | --- | --- |
| Soot %         | %   | 0.2  | --- | --- | --- |
| Nitration (PA) | %   | 93   | --- | --- | --- |
| Sulfation (PA) | %   | 49   | --- | --- | --- |
| Glycol         | %   | NEG  | --- | --- | --- |
| Fuel           | %   | <1.0 | --- | --- | --- |
| Silicon        | ppm | 22   | --- | --- | --- |
| Sodium         | ppm | 4    | --- | --- | --- |
| Potassium      | ppm | 3    | --- | --- | --- |

#### Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm. Aluminum ppm levels are abnormal. Piston wear is indicated. Component wear metal level(s) high for break in. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



#### WEAR METALS

|            |     |    |     |     |     |
|------------|-----|----|-----|-----|-----|
| Iron       | ppm | 79 | --- | --- | --- |
| Copper     | ppm | 16 | --- | --- | --- |
| Lead       | ppm | 2  | --- | --- | --- |
| Tin        | ppm | 4  | --- | --- | --- |
| Aluminum   | ppm | 70 | --- | --- | --- |
| Chromium   | ppm | 13 | --- | --- | --- |
| Molybdenum | ppm | 4  | --- | --- | --- |
| Nickel     | ppm | <1 | --- | --- | --- |
| Titanium   | ppm | 0  | --- | --- | --- |
| Silver     | ppm | 0  | --- | --- | --- |
| Manganese  | ppm | 5  | --- | --- | --- |
| Vanadium   | ppm | 0  | --- | --- | --- |



#### ADDITIVES

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Calcium    | ppm | 3628 | --- | --- | --- |
| Magnesium  | ppm | 263  | --- | --- | --- |
| Zinc       | ppm | 1194 | --- | --- | --- |
| Phosphorus | ppm | 1081 | --- | --- | --- |
| Barium     | ppm | 3    | --- | --- | --- |
| Boron      | ppm | 176  | --- | --- | --- |

**Depot:** CON89LAV  
**Unique No:** 5697691  
**Signed:** Kevin Marson  
**Report Date:** 21 Dec 2023



### GRAPHS

