

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L556 070863-1826 - Diesel Engine

Sample No: LH0257204

Oil Type: SAE 10W40



#### SAMPLE INFORMATION

|               |             |             |             |     |
|---------------|-------------|-------------|-------------|-----|
| Sample Number | LH0257204   | LH0257171   | LH0257168   | --- |
| Sample Date   | 15 Dec 2023 | 18 May 2023 | 15 May 2023 | --- |
| Machine Hours | 4000        | 978         | 531         | --- |
| Oil Hours     | 0           | 0           | 0           | --- |
| Oil Changed   | N/A         | Changed     | Changed     | --- |
| Sample Status | NORMAL      | NORMAL      | NORMAL      | --- |

**PRODUITS FORESTIERS D.G. LTEE**  
 313 RANG ST-JOSEPH  
 STE-AURELIE, QC  
 CA G0M 1M0  
 Contact: Roger .



#### OIL CONDITION

|                |     |      |      |      |     |
|----------------|-----|------|------|------|-----|
| Visc @ 100°C   | cSt | 13.7 | 13.9 | 12.2 | --- |
| Oxidation (PA) | %   | 59   | 71   | 201  | --- |

T: (418)593-3547  
 F: (418)593-3633



#### CONTAMINATION

|                |     |      |      |     |     |
|----------------|-----|------|------|-----|-----|
| Water          | %   | NEG  | NEG  | NEG | --- |
| Soot %         | %   | 0    | 0    | 0   | --- |
| Nitration (PA) | %   | 58   | 60   | 95  | --- |
| Sulfation (PA) | %   | 50   | 57   | 108 | --- |
| Glycol         | %   | NEG  | NEG  | NEG | --- |
| Fuel           | %   | <1.0 | <1.0 | 0.8 | --- |
| Silicon        | ppm | 5    | 6    | 10  | --- |
| Sodium         | ppm | 1    | 1    | 3   | --- |
| Potassium      | ppm | 3    | <1   | 3   | --- |

#### 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.



#### WEAR METALS

|            |     |    |    |     |     |
|------------|-----|----|----|-----|-----|
| Iron       | ppm | 3  | 5  | 12  | --- |
| Copper     | ppm | 1  | 72 | 377 | --- |
| Lead       | ppm | 0  | 3  | 12  | --- |
| Tin        | ppm | 0  | <1 | 2   | --- |
| Aluminum   | ppm | 2  | 1  | 3   | --- |
| Chromium   | ppm | 0  | <1 | <1  | --- |
| Molybdenum | ppm | 58 | 56 | 46  | --- |
| Nickel     | ppm | <1 | <1 | 0   | --- |
| Titanium   | ppm | 0  | <1 | <1  | --- |
| Silver     | ppm | 0  | 0  | 0   | --- |
| Manganese  | ppm | 0  | <1 | 1   | --- |
| Vanadium   | ppm | 0  | 0  | 0   | --- |



#### ADDITIVES

|            |     |      |      |      |     |
|------------|-----|------|------|------|-----|
| Calcium    | ppm | 1053 | 1094 | 1486 | --- |
| Magnesium  | ppm | 957  | 959  | 931  | --- |
| Zinc       | ppm | 1151 | 1139 | 877  | --- |
| Phosphorus | ppm | 986  | 1048 | 802  | --- |
| Barium     | ppm | 0    | 3    | 31   | --- |
| Boron      | ppm | <1   | 6    | 94   | --- |

Depot: PRO9STE  
 Unique No: 5706937  
 Signed: Wes Davis  
 Report Date: 02 Jan 2024



### GRAPHS

