

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(341435)] LIEBHERR LH50M 128733-1216 - Swing Drive

Sample No: LH0286550

Oil Type: GEAR OIL SAE 80W90



#### INFORMATION SUR L'ÉCHANTILLON

| Número d'échant.     | LH0286550   | LH0277772   | LH0256935   | LH0256836   |
|----------------------|-------------|-------------|-------------|-------------|
| Date d'échant.       | 19 Mar 2024 | 20 Nov 2023 | 11 Jun 2023 | 30 Mar 2023 |
| Heures de la Machine | 9241        | 8180        | 14253       | 6168        |
| Heures de l'huile    | 0           | 0           | 0           | 0           |
| Huile changée        | Changed     | Changed     | Changed     | Changed     |
| Statut de l'échant.  | ABNORMAL    | NORMAL      | NORMAL      | NORMAL      |

**COMBINED METAL INDUSTRIES**  
454 DOBBIE DRIVE  
CAMBRIDGE, ON  
CA N1T 1S7  
Contact: Service Manager



#### ÉTAT D'HUILE

| Visc 40°C | cSt | 103 | 101 | 104 | 98.1 |
|-----------|-----|-----|-----|-----|------|
|-----------|-----|-----|-----|-----|------|

T:  
F:



#### CONTAMINATION

| Eau       | %   | NEG | 0.057 | NEG | NEG |
|-----------|-----|-----|-------|-----|-----|
| Silicium  | ppm | 15  | 5     | 3   | 2   |
| Sodium    | ppm | <1  | 1     | <1  | 1   |
| Potassium | ppm | <1  | 0     | 0   | 2   |

#### Diagnostic

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate concentration of dirt present in the oil. The oil is no longer serviceable due to the presence of contaminants.



#### MÉTAUX D'USURE

|           |     |     |     |    |    |
|-----------|-----|-----|-----|----|----|
| Fer       | ppm | 186 | 682 | 43 | 47 |
| Cuivre    | ppm | 41  | 88  | 24 | 32 |
| Plomb     | ppm | 0   | 2   | <1 | <1 |
| Étain     | ppm | 0   | 3   | <1 | 1  |
| Aluminium | ppm | 0   | <1  | 0  | <1 |
| Chrome    | ppm | 2   | 6   | <1 | <1 |
| Molybdène | ppm | 0   | <1  | 0  | 0  |
| Nickel    | ppm | <1  | 2   | 0  | 0  |
| Titane    | ppm | 0   | 0   | 0  | 0  |
| Argent    | ppm | 0   | <1  | 0  | 0  |
| Manganèse | ppm | 0   | 5   | <1 | <1 |
| Vanadium  | ppm | 0   | 0   | 0  | 0  |



#### ADDITIFS

|           |     |      |      |      |      |
|-----------|-----|------|------|------|------|
| Calcium   | ppm | 8    | 20   | 5    | 10   |
| Magnésium | ppm | 2    | 5    | 2    | 2    |
| Zinc      | ppm | 11   | 20   | 9    | 11   |
| Phosphore | ppm | 1276 | 1226 | 1394 | 1349 |
| Baryum    | ppm | <1   | <1   | 0    | 0    |
| Bore      | ppm | 301  | 270  | 311  | 321  |

Depot: COM454CAM  
Unique No: 5748620  
Signed: Kevin Marson  
Report Date: 20 Mar 2024



### GRAPHS

