



# LIEBHERR

## OIL ANALYSIS REPORT

|                 |                 |
|-----------------|-----------------|
| WEAR            | <b>NORMAL</b>   |
| CONTAMINATION   | <b>ABNORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b>   |



Machine Id  
**LIEBHERR LH50M 124712-1216**  
Component  
**Transmission (Manual)**  
Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Veuillez préciser la marque, le type et la viscosité de l'huile lors de votre prochain échantillon.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>LH0277312</b>   | LH0277341   | LH0265503   |
| Sample Date    |     | Client Info |           | <b>16 Jan 2024</b> | 17 Oct 2023 | 07 Jun 2023 |
| Machine Age    | hrs | Client Info |           | <b>12176</b>       | 11300       | 10063       |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Filter Changed |     | Client Info |           | <b>None</b>        | None        | None        |
| Sample Status  |     |             |           | <b>ABNORMAL</b>    | NORMAL      | NORMAL      |

### WEAR

Les taux d'usure de tous les composants sont normaux.

|              |        |               |      |              |      |      |
|--------------|--------|---------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185(m) | >200 | <b>37</b>    | 42   | 42   |
| Chromium     | ppm    | ASTM D5185(m) | >5   | <b>&lt;1</b> | <1   | <1   |
| Nickel       | ppm    | ASTM D5185(m) | >5   | <b>&lt;1</b> | 0    | 0    |
| Titanium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | <1   |
| Silver       | ppm    | ASTM D5185(m) | >7   | <b>0</b>     | <1   | 0    |
| Aluminum     | ppm    | ASTM D5185(m) | >25  | <b>2</b>     | 2    | 2    |
| Lead         | ppm    | ASTM D5185(m) | >45  | <b>0</b>     | <1   | <1   |
| Copper       | ppm    | ASTM D5185(m) | >225 | <b>6</b>     | 9    | 11   |
| Tin          | ppm    | ASTM D5185(m) | >10  | <b>0</b>     | <1   | <1   |
| Vanadium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | 0    |
| White Metal  | scalar | Visual*       | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | Visual*       | NONE | <b>NONE</b>  | NONE | NONE |

### CONTAMINATION

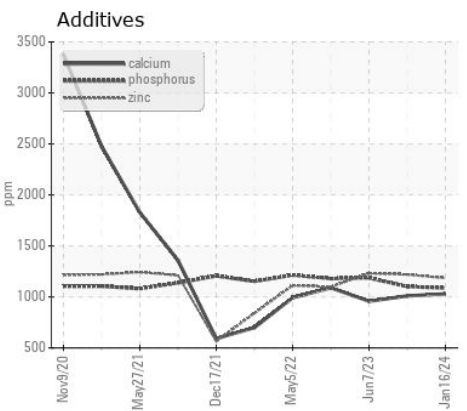
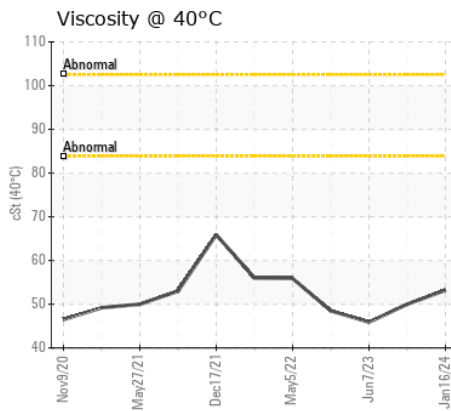
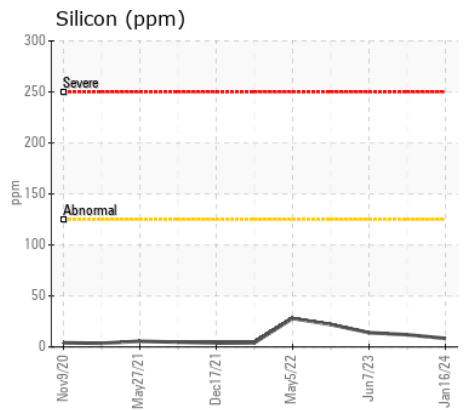
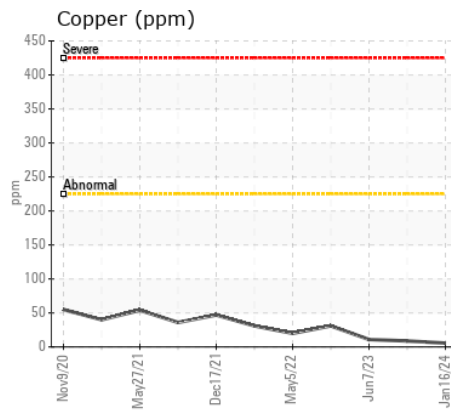
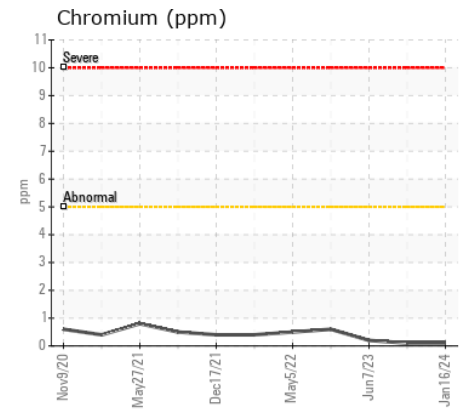
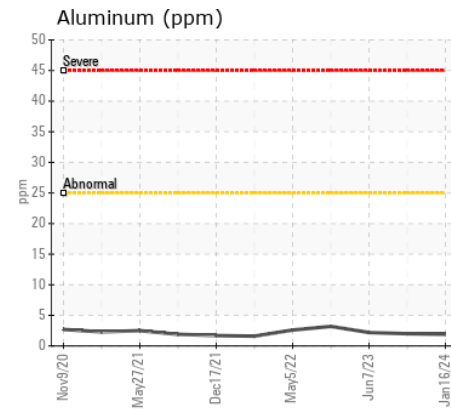
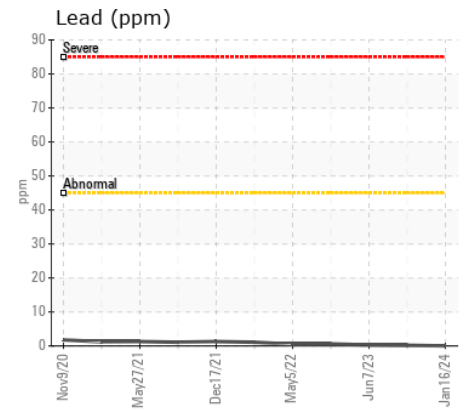
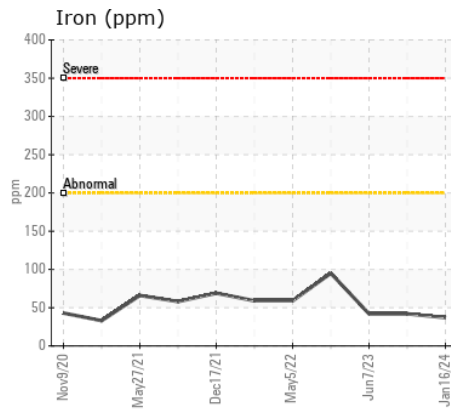
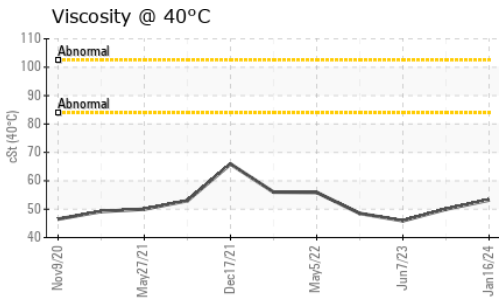
Il n'y a aucun indice de contamination dans le fluide.

|                  |        |               |       |              |       |       |
|------------------|--------|---------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185(m) | >125  | <b>8</b>     | 12    | 14    |
| Potassium        | ppm    | ASTM D5185(m) | >20   | <b>2</b>     | 0     | <1    |
| Water            |        | WC Method     | >0.1  | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | Visual*       | NONE  | <b>NONE</b>  | VLITE | NONE  |
| Debris           | scalar | Visual*       | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Sand/Dirt        | scalar | Visual*       | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Appearance       | scalar | Visual*       | NORML | <b>HAZY</b>  | NORML | NORML |
| Odor             | scalar | Visual*       | NORML | <b>NORML</b> | NORML | NORML |
| Emulsified Water | scalar | Visual*       | >0.1  | <b>NEG</b>   | NEG   | NEG   |

### FLUID CONDITION

L'état de le fluide est acceptable pour la durée de service.

|             |     |               |  |             |      |      |
|-------------|-----|---------------|--|-------------|------|------|
| Sodium      | ppm | ASTM D5185(m) |  | <b>2</b>    | 3    | 4    |
| Boron       | ppm | ASTM D5185(m) |  | <b>17</b>   | 33   | 60   |
| Barium      | ppm | ASTM D5185(m) |  | <b>0</b>    | <1   | 0    |
| Molybdenum  | ppm | ASTM D5185(m) |  | <b>58</b>   | 62   | 57   |
| Manganese   | ppm | ASTM D5185(m) |  | <b>1</b>    | 2    | 3    |
| Magnesium   | ppm | ASTM D5185(m) |  | <b>996</b>  | 1042 | 1042 |
| Calcium     | ppm | ASTM D5185(m) |  | <b>1030</b> | 1010 | 958  |
| Phosphorus  | ppm | ASTM D5185(m) |  | <b>1086</b> | 1102 | 1187 |
| Zinc        | ppm | ASTM D5185(m) |  | <b>1185</b> | 1220 | 1232 |
| Sulfur      | ppm | ASTM D5185(m) |  | <b>3123</b> | 3170 | 3554 |
| Visc @ 40°C | cSt | ASTM D7279(m) |  | <b>53.2</b> | 50.0 | 45.9 |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0277312 **Received** : 18 Jan 2024  
**Lab Number** : 02609722 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 5710808 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1

**SCIERIE DION & FILS INC**  
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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.