



# LIEBHERR

## OIL ANALYSIS REPORT

|                 |        |
|-----------------|--------|
| WEAR            | NORMAL |
| CONTAMINATION   | NORMAL |
| FLUID CONDITION | NORMAL |



Machine Id  
**LIEBHERR LH30M 150670-1253**  
Component  
**Front Differential**  
Fluid  
**SAE 80 (--- GAL)**

### RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.  
Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

### WEAR

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

### CONTAMINATION

Il n'y a aucun indice de contamination dans l'huile.

### FLUID CONDITION

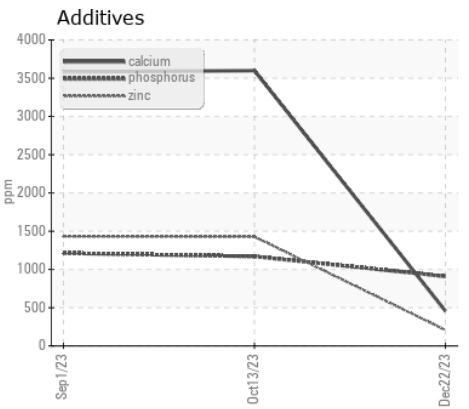
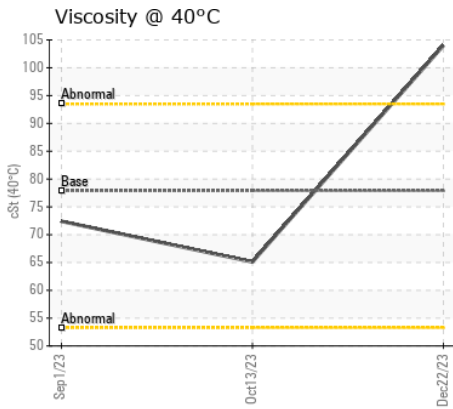
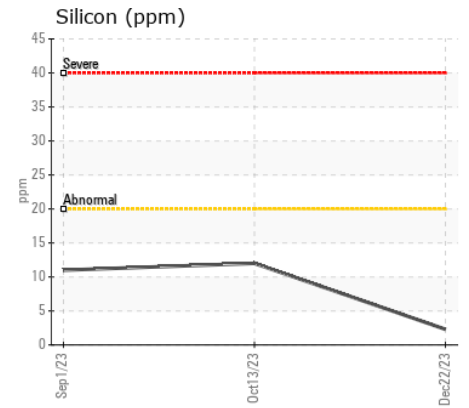
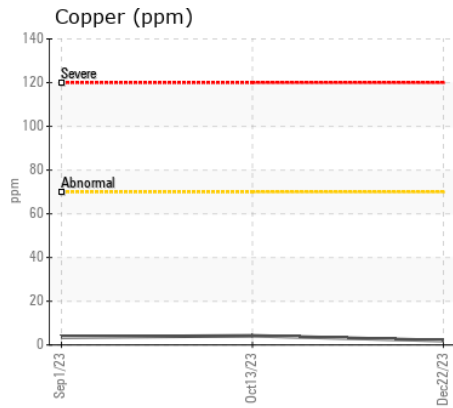
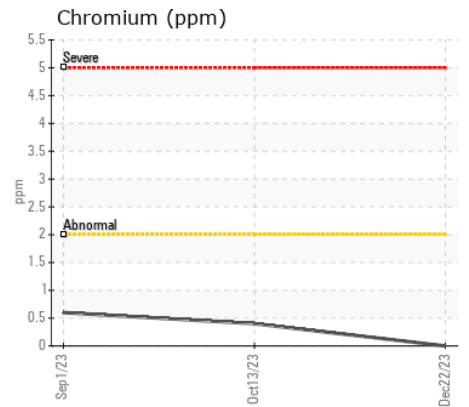
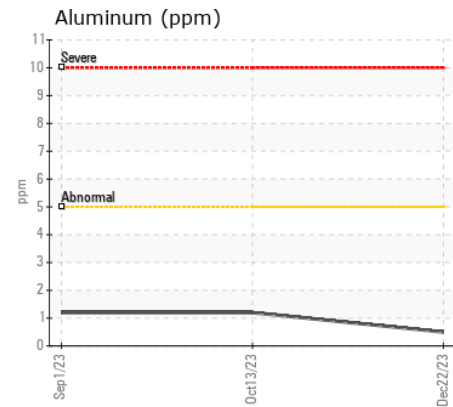
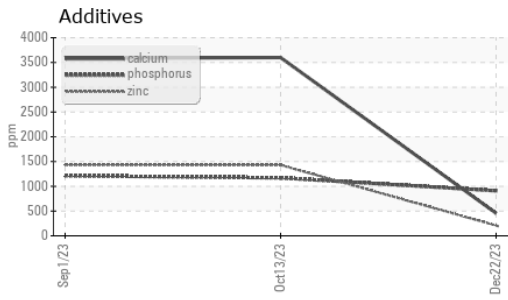
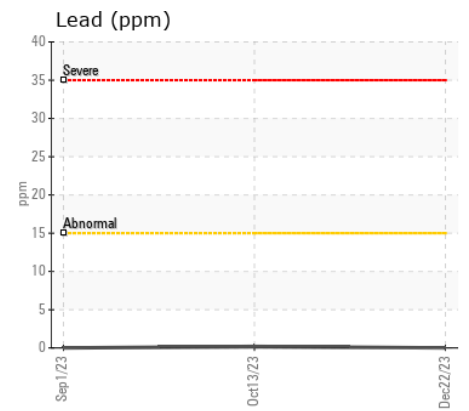
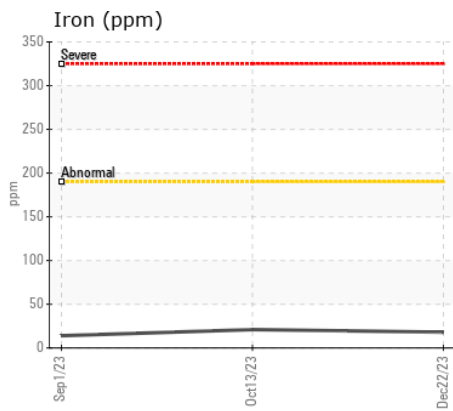
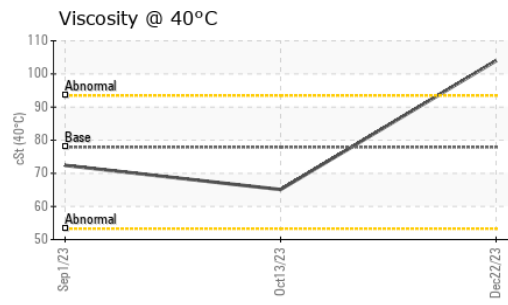
La viscosité de l'échantillon se situe dans la portée de l'SAE 75W90; nous vous conseillons de vérifier. Ceci, en plus des niveaux d'additifs, indique que la marque ou le type d'huile ne correspond pas à ce qui a été signalé. L'état de l'huile est acceptable pour la durée de service.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>LH0271947</b>   | LH0271935   | LH0271923   |
| Sample Date    |     | Client Info |           | <b>22 Dec 2023</b> | 13 Oct 2023 | 01 Sep 2023 |
| Machine Age    | hrs | Client Info |           | <b>1550</b>        | 825         | 458         |
| 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>N/A</b>         | N/A         | N/A         |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | N/A         | N/A         |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

|              |        |               |      |              |      |      |
|--------------|--------|---------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185(m) | >190 | <b>18</b>    | 21   | 14   |
| Chromium     | ppm    | ASTM D5185(m) | >2   | <b>0</b>     | <1   | <1   |
| Nickel       | ppm    | ASTM D5185(m) | >2   | <b>&lt;1</b> | <1   | <1   |
| Titanium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | 0    |
| Silver       | ppm    | ASTM D5185(m) |      | <b>0</b>     | <1   | 0    |
| Aluminum     | ppm    | ASTM D5185(m) | >5   | <b>&lt;1</b> | 1    | 1    |
| Lead         | ppm    | ASTM D5185(m) | >15  | <b>0</b>     | <1   | 0    |
| Copper       | ppm    | ASTM D5185(m) | >70  | <b>2</b>     | 4    | 4    |
| Tin          | ppm    | ASTM D5185(m) | >2   | <b>0</b>     | 0    | 0    |
| 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 |

|                  |        |               |       |              |       |       |
|------------------|--------|---------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185(m) | >20   | <b>2</b>     | 12    | 11    |
| Potassium        | ppm    | ASTM D5185(m) | >20   | <b>2</b>     | 1     | <1    |
| Water            |        | WC Method     | >.2   | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | Visual*       | NONE  | <b>NONE</b>  | NONE  | VLITE |
| Debris           | scalar | Visual*       | NONE  | <b>NONE</b>  | VLITE | VLITE |
| Sand/Dirt        | scalar | Visual*       | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Appearance       | scalar | Visual*       | NORML | <b>NORML</b> | NORML | NORML |
| Odor             | scalar | Visual*       | NORML | <b>NORML</b> | NORML | NORML |
| Emulsified Water | scalar | Visual*       | >.2   | <b>NEG</b>   | NEG   | NEG   |

|             |     |               |      |              |      |      |
|-------------|-----|---------------|------|--------------|------|------|
| Sodium      | ppm | ASTM D5185(m) |      | <b>2</b>     | 15   | 15   |
| Boron       | ppm | ASTM D5185(m) |      | <b>125</b>   | 106  | 104  |
| Barium      | ppm | ASTM D5185(m) |      | <b>0</b>     | 2    | 1    |
| Molybdenum  | ppm | ASTM D5185(m) |      | <b>0</b>     | 0    | <1   |
| Manganese   | ppm | ASTM D5185(m) |      | <b>&lt;1</b> | 4    | 5    |
| Magnesium   | ppm | ASTM D5185(m) |      | <b>2</b>     | 11   | 11   |
| Calcium     | ppm | ASTM D5185(m) |      | <b>457</b>   | 3599 | 3583 |
| Phosphorus  | ppm | ASTM D5185(m) |      | <b>909</b>   | 1170 | 1213 |
| Zinc        | ppm | ASTM D5185(m) |      | <b>208</b>   | 1428 | 1433 |
| Sulfur      | ppm | ASTM D5185(m) |      | <b>19756</b> | 3119 | 2873 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 77.9 | <b>104</b>   | 65.1 | 72.4 |



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0271947  
**Lab Number** : 02609774  
**Unique Number** : 5710860  
**Test Package** : MOBCE ( Additional Tests: Visual )

**Received** : 18 Jan 2024  
**Diagnosed** : 19 Jan 2024  
**Diagnostician** : Kevin Marson  
**Gestion Transfor - Transport La Dore**  
 5750 Rue des Peupliers  
 La Dore, QC  
 CA G8J 1G4  
 Contact: Eric Fortin  
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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.