



# LIEBHERR

## RAPPORT D'ANALYSE D'HUILE

USURE **NORMAL**

CONTAMINATION **NORMAL**

ÉTAT DU FLUIDE **NORMAL**



Identité de la machine

**LIEBHERR LH50M 145793-1216**

Composant

**Moyeu de roue Arrière gauche**

Fluide

**LIEBHERR GEAR BASIC 90 LS (--- GAL)**

### RECOMMANDATION

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

| Test                | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|---------------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Numéro d'échant.    |     | Client Info |           | <b>LH</b>          | LH          | LH          |
| Date d'échant.      |     | Client Info |           | <b>30 Nov 2023</b> | 11 Oct 2023 | 04 Jul 2023 |
| Âge d la Machine    | hrs | Client Info |           | <b>5000</b>        | 4000        | 2000        |
| Âge de l'huile      | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Âge du filtre       | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Huile changée       |     | Client Info |           | <b>Changed</b>     | Changed     | N/A         |
| Filtre changé       |     | Client Info |           | <b>None</b>        | None        | N/A         |
| Statut de l'échant. |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

### USURE

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

|             |        |               |      |              |      |      |
|-------------|--------|---------------|------|--------------|------|------|
| Fer         | ppm    | ASTM D5185(m) | >325 | <b>50</b>    | 54   | 60   |
| Chrome      | ppm    | ASTM D5185(m) | >3   | <b>0</b>     | 0    | <1   |
| Nickel      | ppm    | ASTM D5185(m) | >2   | <b>&lt;1</b> | <1   | <1   |
| Titane      | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | 0    |
| Argent      | ppm    | ASTM D5185(m) |      | <b>&lt;1</b> | <1   | <1   |
| Aluminium   | ppm    | ASTM D5185(m) | >10  | <b>0</b>     | <1   | <1   |
| Plomb       | ppm    | ASTM D5185(m) | >4   | <b>0</b>     | <1   | <1   |
| Cuivre      | ppm    | ASTM D5185(m) | >75  | <b>2</b>     | 5    | 10   |
| Étain       | ppm    | ASTM D5185(m) | >3   | <b>0</b>     | 0    | 0    |
| Vanadium    | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | <1   |
| Métal blanc | scalar | Visual*       | NONE | <b>NONE</b>  | NONE | NONE |
| Bronze      | scalar | Visual*       | NONE | <b>NONE</b>  | NONE | NONE |

### CONTAMINATION

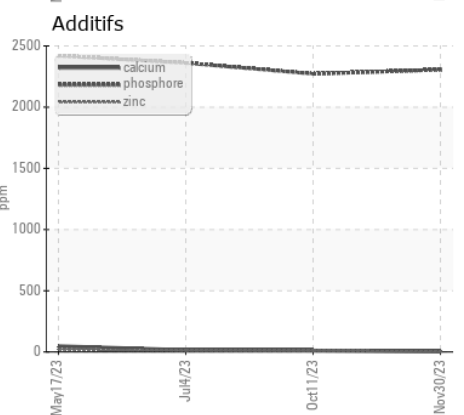
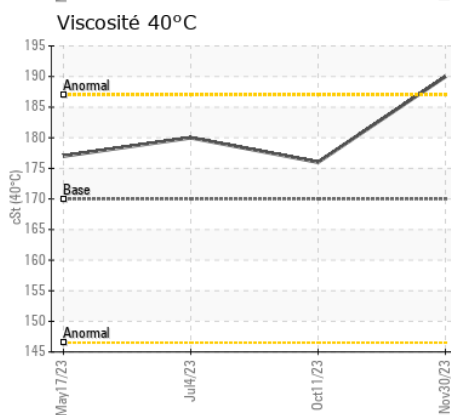
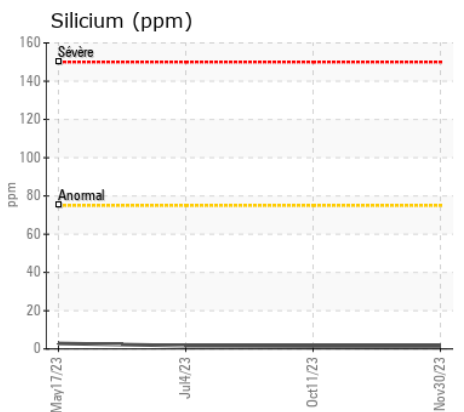
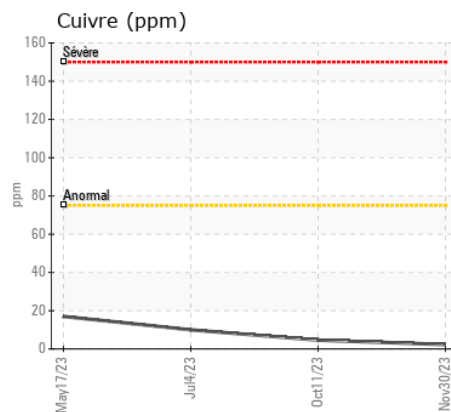
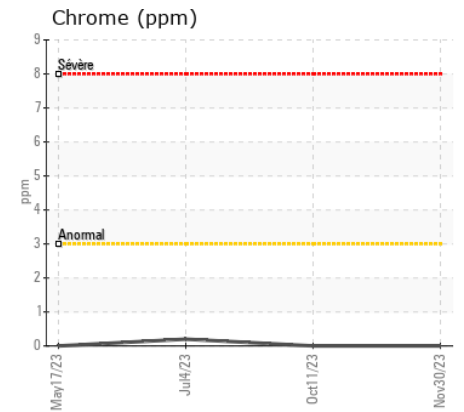
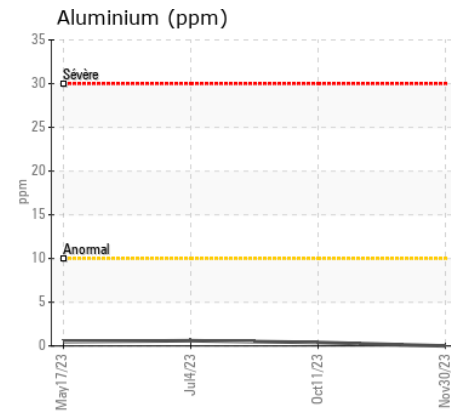
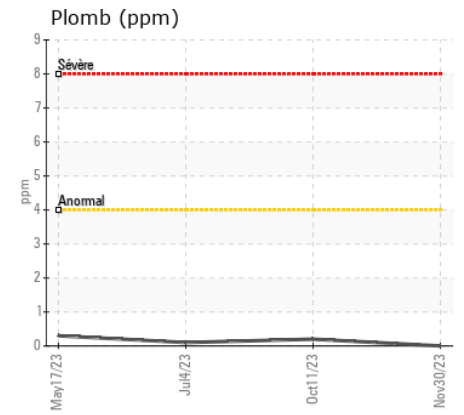
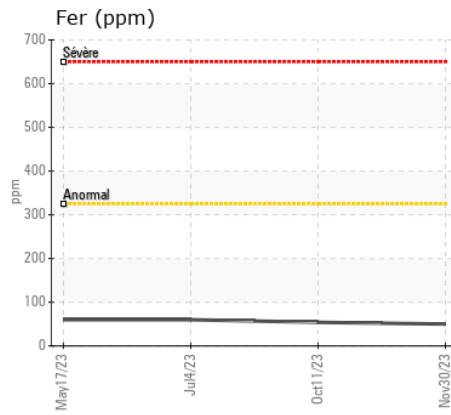
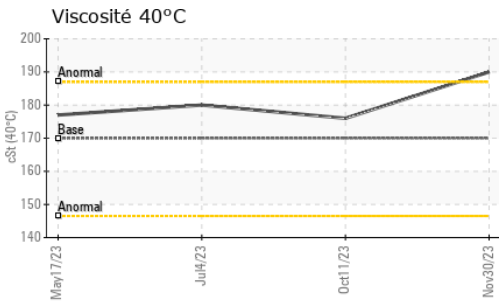
Il n'y a aucun indice de contamination dans l'huile.

|                |        |               |       |              |       |       |
|----------------|--------|---------------|-------|--------------|-------|-------|
| Silicium       | ppm    | ASTM D5185(m) | >75   | <b>2</b>     | 2     | 2     |
| Potassium      | ppm    | ASTM D5185(m) | >20   | <b>0</b>     | 0     | <1    |
| L'eau          |        | WC Method     | >0.2  | <b>NEG</b>   | NEG   | NEG   |
| Limon          | scalar | Visual*       | NONE  | <b>NONE</b>  | VLITE | NONE  |
| Débris         | scalar | Visual*       | NONE  | <b>NONE</b>  | VLITE | NONE  |
| Saleté         | scalar | Visual*       | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Apparence      | scalar | Visual*       | NORML | <b>NORML</b> | NORML | NORML |
| Odeur          | scalar | Visual*       | NORML | <b>NORML</b> | NORML | NORML |
| Eau émulsifiée | scalar | Visual*       | >0.2  | <b>NEG</b>   | NEG   | NEG   |

### ÉTAT DU FLUIDE

L'état de l'huile est acceptable pour la durée de service.

|           |     |               |       |              |       |       |
|-----------|-----|---------------|-------|--------------|-------|-------|
| Sodium    | ppm | ASTM D5185(m) |       | <b>1</b>     | 2     | 3     |
| Bore      | ppm | ASTM D5185(m) | 0     | <b>&lt;1</b> | 1     | 2     |
| Baryum    | ppm | ASTM D5185(m) | 0     | <b>0</b>     | <1    | 0     |
| Molybdène | ppm | ASTM D5185(m) | 0     | <b>0</b>     | 0     | 0     |
| Manganèse | ppm | ASTM D5185(m) | 0     | <b>0</b>     | <1    | 1     |
| Magnésium | ppm | ASTM D5185(m) | <1    | <b>&lt;1</b> | 0     | <1    |
| Calcium   | ppm | ASTM D5185(m) | <1    | <b>3</b>     | 12    | 16    |
| Phosphore | ppm | ASTM D5185(m) | 2143  | <b>2306</b>  | 2272  | 2361  |
| Zinc      | ppm | ASTM D5185(m) | <1    | <b>4</b>     | 9     | 12    |
| Soufre    | ppm | ASTM D5185(m) | 23468 | <b>24394</b> | 26363 | 25900 |
| Visc 40°C | cSt | ASTM D7279(m) | 170   | <b>190</b>   | 176   | 180   |



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : LH  
**N° de laboratoire** : 02600251  
**Numéro unique** : 5685331  
**Analyse** : MOB 1

**Reçu** : 01 Dec 2023  
**Diagnostiqué** : 01 Dec 2023  
**Diagnostiqueur** : Wes Davis

**PF Resolu Canada Inc.**  
 5850 avenue des jardins  
 La Dore, QC  
 CA G8J 1B4  
 Contact: Dominic Caron

Pour discuter ce rapport, contacter le service à la clientèle au 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 La validez de los resultados y la interpretación se basan en la muestra y la información proporcionada.

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F: