



# LIEBHERR

## RAPPORT D'ANALYSE D'HUILE

|                |               |
|----------------|---------------|
| USURE          | <b>NORMAL</b> |
| CONTAMINATION  | <b>NORMAL</b> |
| ÉTAT DU FLUIDE | <b>NORMAL</b> |



Identité de la machine  
**LIEBHERR LH22M 112532-1250**  
 Composant  
**Transmission Manuelle**  
 Fluide  
**PETRO CANADA 10W30 (3 LTR)**

### 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>LH0153183</b>   | LH0234213   | LH0199489   |
| Date d'échant.      |     | Client Info |           | <b>05 Jul 2023</b> | 23 Sep 2022 | 10 Oct 2021 |
| Âge d la Machine    | hrs | Client Info |           | <b>7001</b>        | 5700        | 4000        |
| 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     | Changed     |
| Filtre changé       |     | Client Info |           | <b>None</b>        | N/A         | 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) | >200 | <b>15</b>    | 12   | 13   |
| Chrome      | ppm    | ASTM D5185(m) | >5   | <b>&lt;1</b> | 0    | <1   |
| Nickel      | ppm    | ASTM D5185(m) | >5   | <b>0</b>     | 0    | <1   |
| Titane      | ppm    | ASTM D5185(m) |      | <b>0</b>     | <1   | 0    |
| Argent      | ppm    | ASTM D5185(m) | >7   | <b>0</b>     | 0    | <1   |
| Aluminium   | ppm    | ASTM D5185(m) | >25  | <b>2</b>     | 2    | 2    |
| Plomb       | ppm    | ASTM D5185(m) | >45  | <b>0</b>     | <1   | 2    |
| Cuivre      | ppm    | ASTM D5185(m) | >225 | <b>10</b>    | 12   | 23   |
| Étain       | ppm    | ASTM D5185(m) | >10  | <b>&lt;1</b> | <1   | 1    |
| Vanadium    | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | 0    |
| Métal blanc | scalar | Visual*       | NONE | <b>NONE</b>  | NONE | NONE |
| Bronze      | scalar | Visual*       | NONE | <b>NONE</b>  | NONE | NONE |

### CONTAMINATION

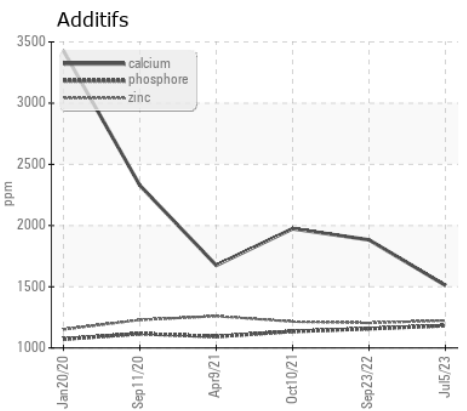
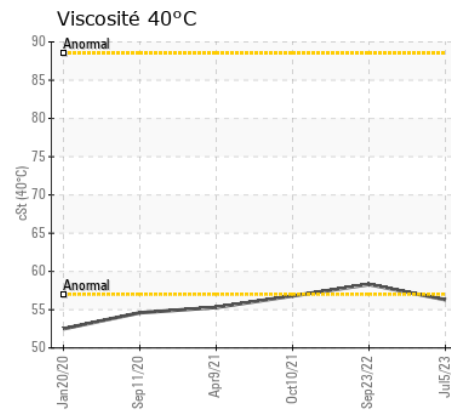
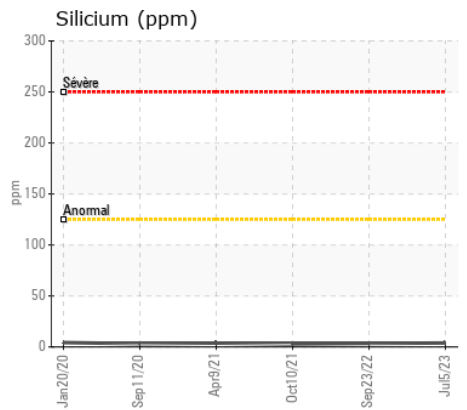
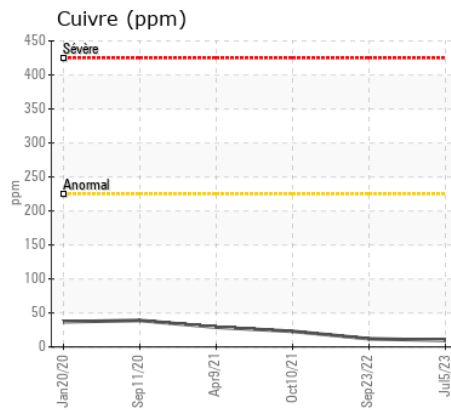
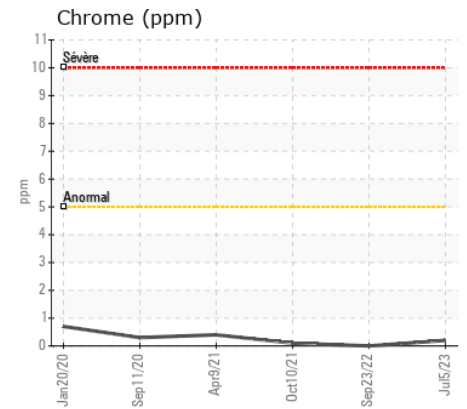
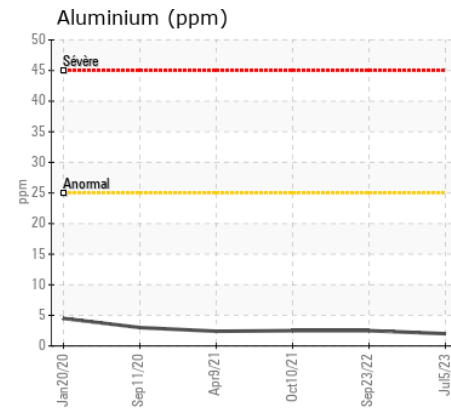
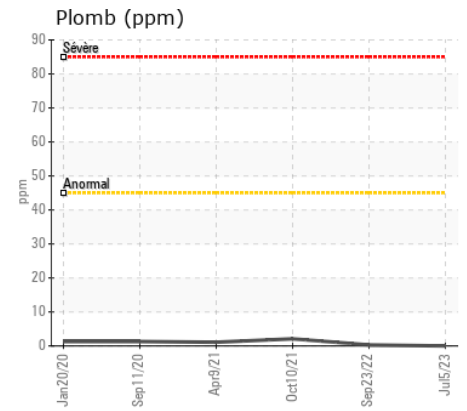
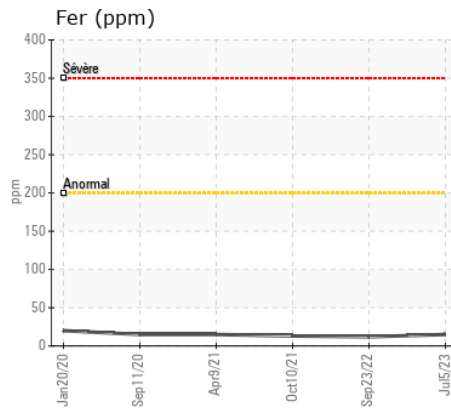
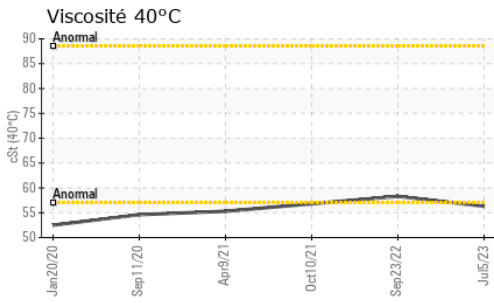
Il n'y a aucun indice de contamination dans le fluide.

|                |        |               |       |              |       |       |
|----------------|--------|---------------|-------|--------------|-------|-------|
| Silicium       | ppm    | ASTM D5185(m) | >125  | <b>4</b>     | 4     | 3     |
| Potassium      | ppm    | ASTM D5185(m) | >20   | <b>&lt;1</b> | <1    | 1     |
| Limon          | scalar | Visual*       | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Débris         | scalar | Visual*       | NONE  | <b>NONE</b>  | NONE  | VLITE |
| 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*       | >0.1  | <b>NEG</b>   | NEG   | NEG   |

### ÉTAT DU FLUIDE

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

|           |     |               |  |             |      |      |
|-----------|-----|---------------|--|-------------|------|------|
| Sodium    | ppm | ASTM D5185(m) |  | <b>4</b>    | 5    | 8    |
| Bore      | ppm | ASTM D5185(m) |  | <b>31</b>   | 54   | 41   |
| Baryum    | ppm | ASTM D5185(m) |  | <b>0</b>    | 0    | <1   |
| Molybdène | ppm | ASTM D5185(m) |  | <b>69</b>   | 74   | 67   |
| Manganèse | ppm | ASTM D5185(m) |  | <b>3</b>    | 4    | 6    |
| Magnésium | ppm | ASTM D5185(m) |  | <b>710</b>  | 393  | 394  |
| Calcium   | ppm | ASTM D5185(m) |  | <b>1511</b> | 1883 | 1974 |
| Phosphore | ppm | ASTM D5185(m) |  | <b>1182</b> | 1157 | 1135 |
| Zinc      | ppm | ASTM D5185(m) |  | <b>1224</b> | 1204 | 1215 |
| Soufre    | ppm | ASTM D5185(m) |  | <b>3161</b> | 3514 | 4097 |
| Visc 40°C | cSt | ASTM D7279(m) |  | <b>56.3</b> | 58.3 | 56.8 |



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : LH0153183 **Reçu** : 10 Jul 2023  
**N° de laboratoire** : 02568839 **Diagnostiqué** : 10 Jul 2023  
**Numéro unique** : 5605885 **Diagnostiqueur** : Kevin Marson  
**Analyse** : MOBCE ( Additional Tests: Visual )

**CENTREM**  
 1125 DES PINS O.  
 ALMA, QC  
 CA G8B 7V7  
 Contact: Service Manager

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.  
 Validity of results and interpretation are based on the sample and information as supplied.

T:  
F: