



# LIEBHERR

## RAPPORT D'ANALYSE D'HUILE

USURE **NORMAL**

CONTAMINATION **NORMAL**

ÉTAT DU FLUIDE **NORMAL**



Identité de la machine

**LIEBHERR LH22M 083532-1209**

Composant

**Système hydraulique**

Fluide

**PETRO CANADA HYDREX AW 46 (350 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>LH</b>          | LH0251204   | LH0192213   |
| Date d'échant.      |     | Client Info |           | <b>17 Jul 2023</b> | 22 Feb 2023 | 16 Mar 2022 |
| Âge d la Machine    | hrs | Client Info |           | <b>7420</b>        | 6940        | 5566        |
| 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>Not Changd</b>  | Not Changd  | Not Changd  |
| Filtre changé       |     | Client Info |           | <b>N/A</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) | >60  | <b>9</b>     | 8    | 6    |
| Chrome      | ppm    | ASTM D5185(m) | >40  | <b>2</b>     | 2    | 2    |
| Nickel      | ppm    | ASTM D5185(m) | >10  | <b>0</b>     | <1   | 0    |
| Titane      | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | 0    |
| Argent      | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | <1   |
| Aluminium   | ppm    | ASTM D5185(m) | >5   | <b>&lt;1</b> | <1   | <1   |
| Plomb       | ppm    | ASTM D5185(m) | >5   | <b>&lt;1</b> | <1   | <1   |
| Cuivre      | ppm    | ASTM D5185(m) | >15  | <b>4</b>     | 4    | 3    |
| Étain       | ppm    | ASTM D5185(m) | >5   | <b>0</b>     | 0    | 0    |
| 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

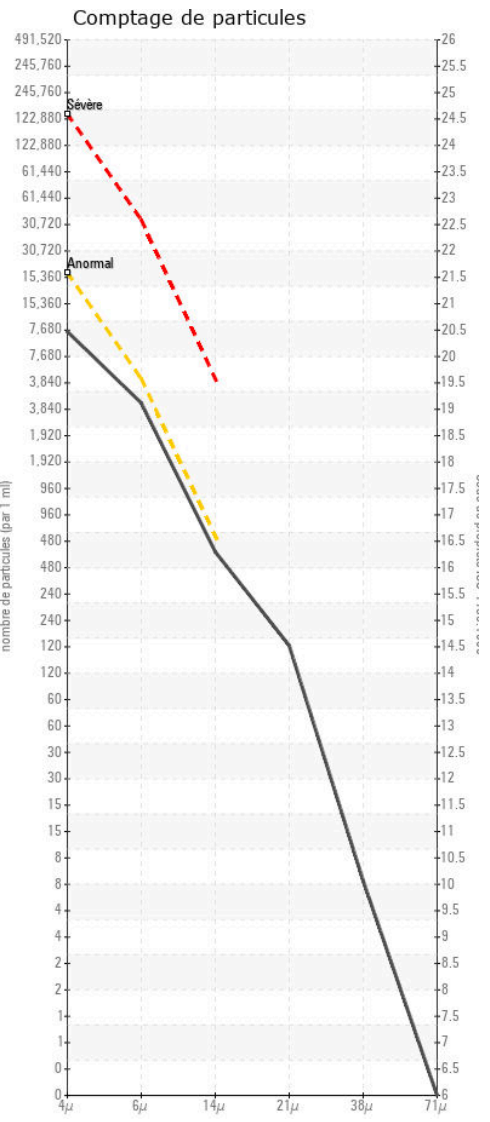
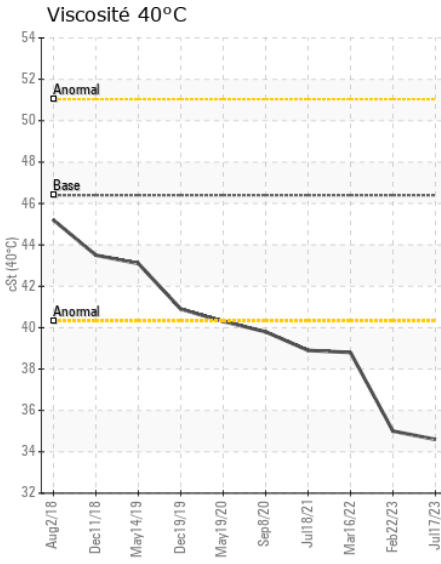
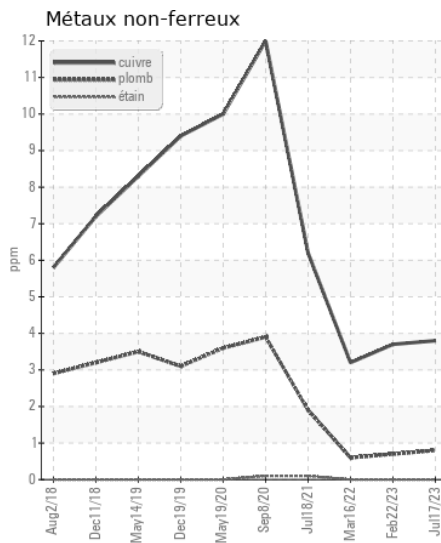
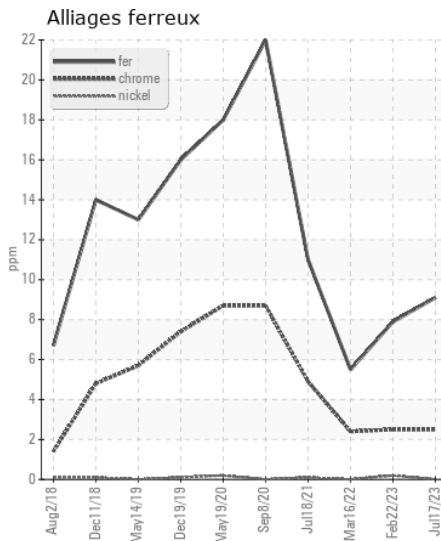
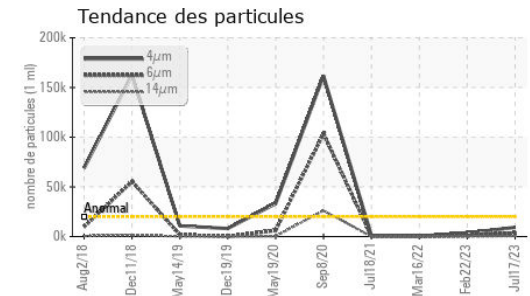
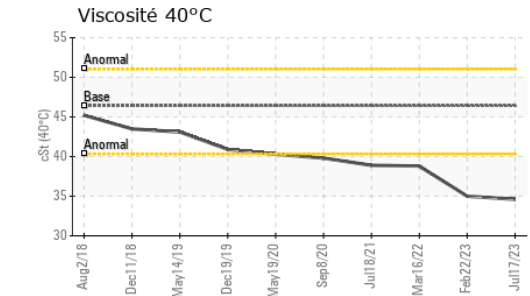
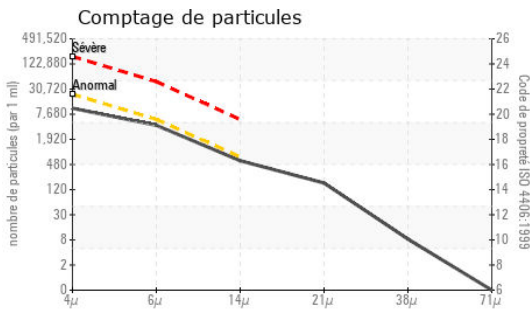
La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La propreté du système et du fluide est acceptable.

|                     |        |               |           |                 |          |         |
|---------------------|--------|---------------|-----------|-----------------|----------|---------|
| Silicium            | ppm    | ASTM D5185(m) | >15       | <b>2</b>        | 1        | 1       |
| Potassium           | ppm    | ASTM D5185(m) | >20       | <b>&lt;1</b>    | 0        | <1      |
| Particules >4µ      |        | ASTM D7647    | >20000    | <b>9269</b>     | 3565     | 517     |
| Particules >6µ      |        | ASTM D7647    | >5000     | <b>3635</b>     | 1006     | 71      |
| Particules >14µ     |        | ASTM D7647    | >640      | <b>519</b>      | 87       | 4       |
| Particules >21µ     |        | ASTM D7647    | >160      | <b>152</b>      | 26       | 1       |
| Particules >38µ     |        | ASTM D7647    | >40       | <b>7</b>        | 1        | 0       |
| Particules >71µ     |        | ASTM D7647    | >10       | <b>0</b>        | 0        | 0       |
| Propreté de l'huile |        | ISO 4406 (c)  | >21/19/16 | <b>20/19/16</b> | 19/17/14 | 16/13/9 |
| Limon               | scalar | Visual*       | NONE      | <b>VLITE</b>    | NONE     | NONE    |
| Débris              | scalar | Visual*       | NONE      | <b>NONE</b>     | NONE     | 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*       | >0.1      | <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>     | <1   | <1   |
| Bore      | ppm | ASTM D5185(m) | 0    | <b>&lt;1</b> | <1   | 2    |
| Baryum    | ppm | ASTM D5185(m) | 0    | <b>0</b>     | 0    | 0    |
| Molybdène | ppm | ASTM D5185(m) | 0    | <b>0</b>     | 0    | 0    |
| Manganèse | ppm | ASTM D5185(m) | 0    | <b>0</b>     | <1   | 0    |
| Magnésium | ppm | ASTM D5185(m) | 0    | <b>3</b>     | 1    | <1   |
| Calcium   | ppm | ASTM D5185(m) | 50   | <b>141</b>   | 161  | 201  |
| Phosphore | ppm | ASTM D5185(m) | 330  | <b>475</b>   | 494  | 530  |
| Zinc      | ppm | ASTM D5185(m) | 430  | <b>564</b>   | 564  | 661  |
| Soufre    | ppm | ASTM D5185(m) | 760  | <b>1137</b>  | 1208 | 1430 |
| Visc 40°C | cSt | ASTM D7279(m) | 46.4 | <b>34.6</b>  | 35.0 | 38.8 |



**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : LH **Reçu** : 24 Jul 2023  
**N° de laboratoire** : 02571691 **Diagnostiqué** : 25 Jul 2023  
**Numéro unique** : 5616742 **Diagnostiqueur** : Wes Davis  
**Analyse** : MOB 1 ( Additional Tests: PrtCount )

**SERVICES MATREC INC.**  
 32525 BOUL. LAURIER EST  
 SAINT-HYACINTHE, QC  
 CA J2R 2B2  
 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.  
 La validez de los resultados y la interpretación se basan en la muestra y la información proporcionada.

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F: