



# 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 L586 029946**

Composant  
**Moteur diesel**

Fluid  
**PETRO CANADA DURON UHP 5W30 (--- 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>          | ---      | ---      |
| Date d'échant.      |     | Client Info |           | <b>19 Mar 2024</b> | ---      | ---      |
| Âge d la Machine    | hrs | Client Info |           | <b>13500</b>       | ---      | ---      |
| Âge de l'huile      | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Âge du filtre       | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Huile changée       |     | Client Info |           | <b>Changed</b>     | ---      | ---      |
| Filtre changé       |     | Client Info |           | <b>Changed</b>     | ---      | ---      |
| Statut de l'échant. |     |             |           | <b>NORMAL</b>      | ---      | ---      |

### USURE

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

|           |     |               |      |              |     |     |
|-----------|-----|---------------|------|--------------|-----|-----|
| Fer       | ppm | ASTM D5185(m) | >100 | <b>15</b>    | --- | --- |
| Chrome    | ppm | ASTM D5185(m) | >5   | <b>&lt;1</b> | --- | --- |
| Nickel    | ppm | ASTM D5185(m) | >5   | <b>0</b>     | --- | --- |
| Titane    | ppm | ASTM D5185(m) |      | <b>0</b>     | --- | --- |
| Argent    | ppm | ASTM D5185(m) | >3   | <b>0</b>     | --- | --- |
| Aluminium | ppm | ASTM D5185(m) | >15  | <b>2</b>     | --- | --- |
| Plomb     | ppm | ASTM D5185(m) | >30  | <b>0</b>     | --- | --- |
| Cuivre    | ppm | ASTM D5185(m) | >125 | <b>4</b>     | --- | --- |
| Étain     | ppm | ASTM D5185(m) | >5   | <b>0</b>     | --- | --- |
| Vanadium  | ppm | ASTM D5185(m) |      | <b>0</b>     | --- | --- |

### CONTAMINATION

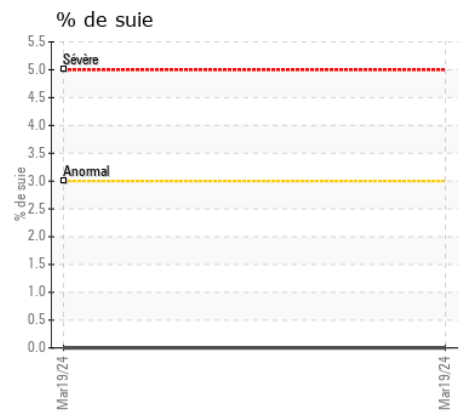
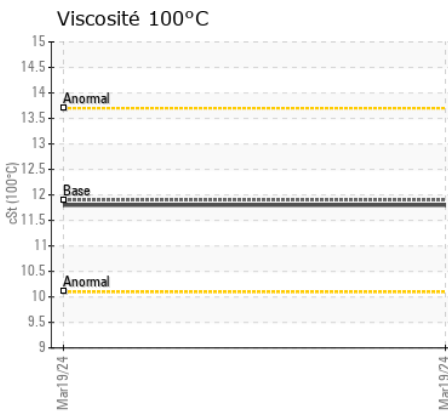
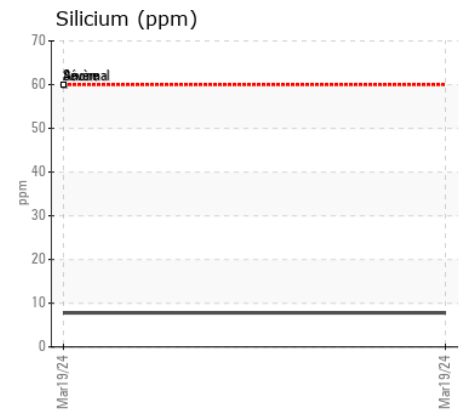
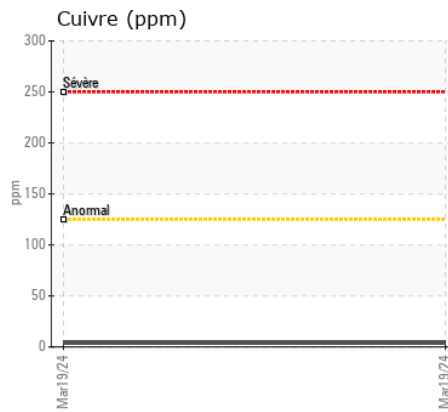
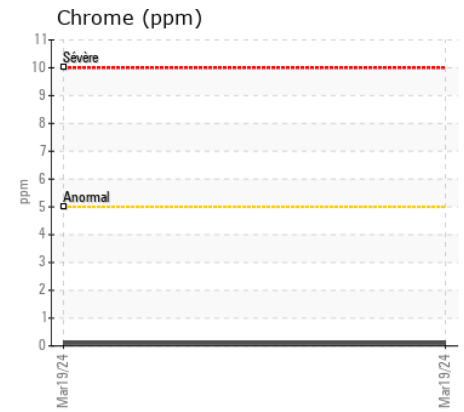
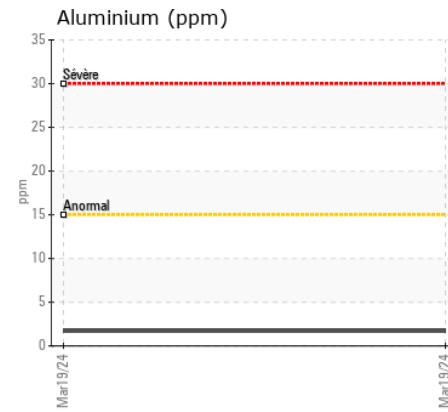
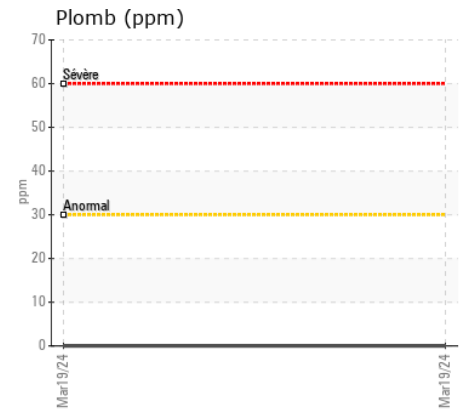
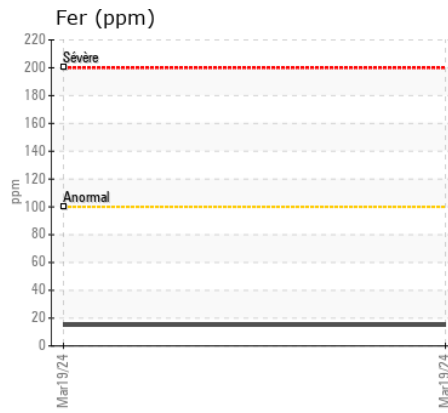
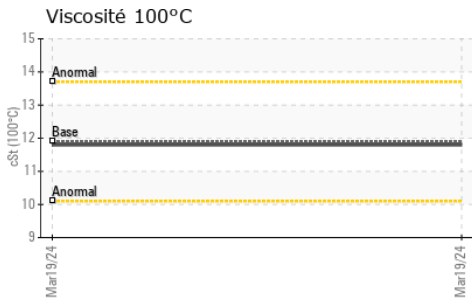
Il n'y a aucun indice de contamination dans l'huile.

|                |          |               |      |                |     |     |
|----------------|----------|---------------|------|----------------|-----|-----|
| Silicium       | ppm      | ASTM D5185(m) | >60  | <b>8</b>       | --- | --- |
| Potassium      | ppm      | ASTM D5185(m) | >20  | <b>0</b>       | --- | --- |
| Essence        |          | WC Method     | >5   | <b>&lt;1.0</b> | --- | --- |
| L'eau          |          | WC Method     | >0.2 | <b>NEG</b>     | --- | --- |
| Glycol         |          | WC Method     |      | <b>NEG</b>     | --- | --- |
| % de suie      | %        | ASTM D7844*   | >3   | <b>0</b>       | --- | --- |
| Nitration      | Abs/cm   | ASTM D7624*   | >20  | <b>9.3</b>     | --- | --- |
| Sulfatation    | Abs/.1mm | ASTM D7415*   | >30  | <b>20.2</b>    | --- | --- |
| Eau émulsifiée | scalar   | Visual*       | >0.2 | <b>NEG</b>     | --- | --- |

### ÉTAT DU FLUIDE

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

|            |          |               |      |             |     |     |
|------------|----------|---------------|------|-------------|-----|-----|
| Sodium     | ppm      | ASTM D5185(m) |      | <b>5</b>    | --- | --- |
| Bore       | ppm      | ASTM D5185(m) | 0    | <b>38</b>   | --- | --- |
| Baryum     | ppm      | ASTM D5185(m) | 0    | <b>0</b>    | --- | --- |
| Molybdène  | ppm      | ASTM D5185(m) | 64   | <b>57</b>   | --- | --- |
| Manganèse  | ppm      | ASTM D5185(m) | 0    | <b>0</b>    | --- | --- |
| Magnésium  | ppm      | ASTM D5185(m) | 1160 | <b>1121</b> | --- | --- |
| Calcium    | ppm      | ASTM D5185(m) | 820  | <b>838</b>  | --- | --- |
| Phosphore  | ppm      | ASTM D5185(m) | 1160 | <b>971</b>  | --- | --- |
| Zinc       | ppm      | ASTM D5185(m) | 1260 | <b>1188</b> | --- | --- |
| Soufre     | ppm      | ASTM D5185(m) | 3000 | <b>2571</b> | --- | --- |
| Oxydation  | Abs/.1mm | ASTM D7414*   | >25  | <b>18.7</b> | --- | --- |
| Visc 100°C | cSt      | ASTM D7279(m) | 11.9 | <b>11.8</b> | --- | --- |



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

**N° d'échantillon** : LH

**N° de laboratoire** : 02624183

**Numéro unique** : 5749302

**Analyse** : MOB 1

**Reçu** : 25 Mar 2024

**Tested** : 25 Mar 2024

**Diagnostiqué** : 25 Mar 2024 - Kevin Marson

**NEXOLIA, CHAPAIS ENERGIE SEC**

140 RUE DE LA CONGENERATION

CHAPAIS, QC

CA G0W 1H0

Contact: Carl Adams

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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