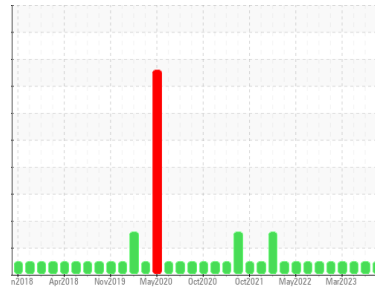




Identité de la machine
LIEBHERR LH50M 097459-1216
 Composant
Moteur diesel
 Fluide
PETRO CANADA DURON UHP 5W30 (32 LTR)

Sample Rating Trend



NORMALE



DIAGNOSTIC

Recommendation

Resample at the next service interval to monitor.

Usure

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

État Du Fluide

The condition of the oil is acceptable for the time in service.

| INFORMATION SUR L'ÉCHANTILLON | | methode | limite/base | actuel | passé1 | passé2 |
|-------------------------------|-------------|-------------|-------------|--------------------|-------------|-------------|
| Numéro d'échant. | Client Info | | | LH0277110 | LH0260016 | LH0250296 |
| Date d'échant. | Client Info | | | 13 Oct 2023 | 21 Aug 2023 | 31 May 2023 |
| Âge d la Machine | hrs | Client Info | | 28718 | 27281 | 26834 |
| Âge de l'huile | hrs | Client Info | | 0 | 0 | 0 |
| Huile changée | Client Info | | | Changed | Changed | Changed |
| Statut de l'échant. | | | | NORMAL | NORMAL | NORMAL |

| CONTAMINATION | | methode | limite/base | actuel | passé1 | passé2 |
|---------------|-----------|---------|-------------|----------------|--------|--------|
| Essence | WC Method | >5 | | <1.0 | <1.0 | <1.0 |
| Glycol | WC Method | | | NEG | NEG | NEG |

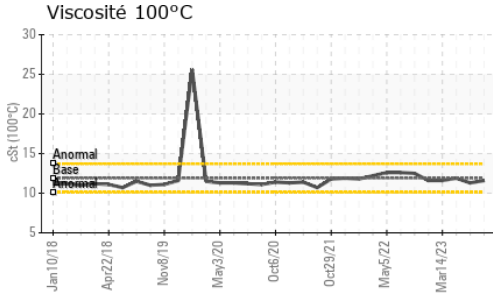
| MÉTAUX D'USURE | | methode | limite/base | actuel | passé1 | passé2 |
|----------------|-----|---------------|-------------|--------------|--------|--------|
| Fer | ppm | ASTM D5185(m) | >100 | 7 | 10 | 5 |
| Chrome | ppm | ASTM D5185(m) | >5 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185(m) | >5 | 0 | 0 | 0 |
| Titane | ppm | ASTM D5185(m) | | 0 | <1 | 0 |
| Argent | ppm | ASTM D5185(m) | >3 | <1 | 0 | 0 |
| Aluminium | ppm | ASTM D5185(m) | >15 | 2 | 2 | 2 |
| Plomb | ppm | ASTM D5185(m) | >30 | <1 | 1 | <1 |
| Cuivre | ppm | ASTM D5185(m) | >125 | 2 | 2 | 1 |
| Étain | ppm | ASTM D5185(m) | >5 | 0 | <1 | 0 |
| Antimoine | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Béryllium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

| ADDITIFS | | methode | limite/base | actuel | passé1 | passé2 |
|-----------|-----|---------------|-------------|--------------|--------|--------|
| Bore | ppm | ASTM D5185(m) | 0 | 18 | 12 | 23 |
| Baryum | ppm | ASTM D5185(m) | 0 | <1 | <1 | 0 |
| Molybdène | ppm | ASTM D5185(m) | 64 | 56 | 63 | 57 |
| Manganèse | ppm | ASTM D5185(m) | 0 | 0 | <1 | 0 |
| Magnésium | ppm | ASTM D5185(m) | 1160 | 1119 | 1139 | 1002 |
| Calcium | ppm | ASTM D5185(m) | 820 | 855 | 940 | 1146 |
| Phosphore | ppm | ASTM D5185(m) | 1160 | 1043 | 1095 | 1114 |
| Zinc | ppm | ASTM D5185(m) | 1260 | 1245 | 1259 | 1271 |
| Soufre | ppm | ASTM D5185(m) | 3000 | 2749 | 2787 | 2958 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |

| CONTAMINANTS | | methode | limite/base | actuel | passé1 | passé2 |
|--------------|-----|---------------|-------------|----------|--------|--------|
| Silicium | ppm | ASTM D5185(m) | >60 | 8 | 11 | 6 |
| Sodium | ppm | ASTM D5185(m) | | 5 | 6 | 5 |
| Potassium | ppm | ASTM D5185(m) | >20 | 0 | 2 | <1 |

| INFRA-RED | | methode | limite/base | actuel | passé1 | passé2 |
|-------------|----------|-------------|-------------|-------------|--------|--------|
| % de suie | % | ASTM D7844* | >3 | 0 | 0 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 11.4 | 13.6 | 11.6 |
| Sulfatation | Abs/.1mm | ASTM D7415* | >30 | 23.6 | 27.0 | 23.5 |

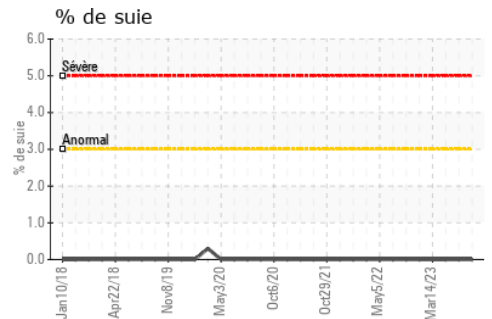
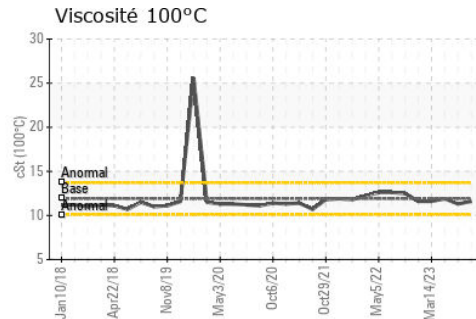
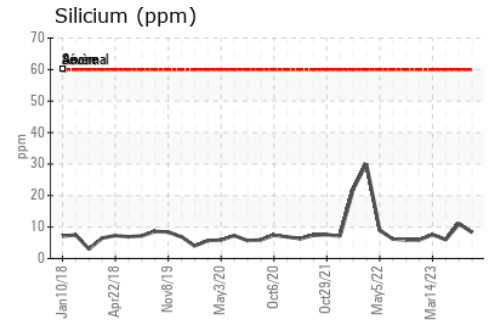
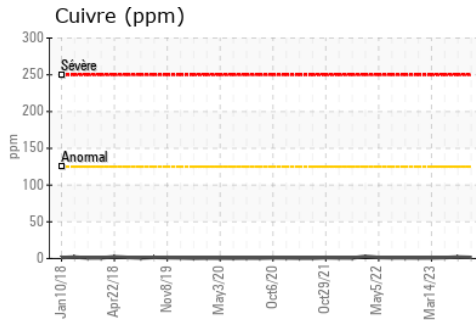
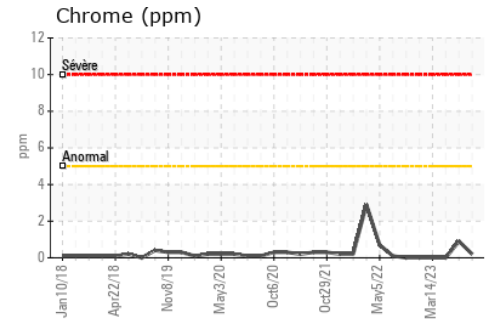
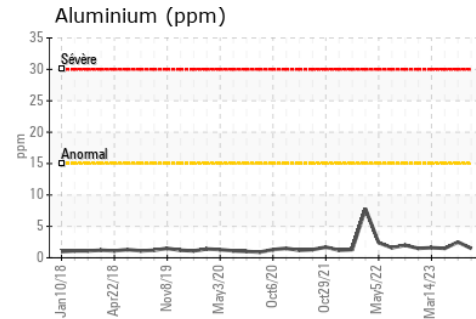
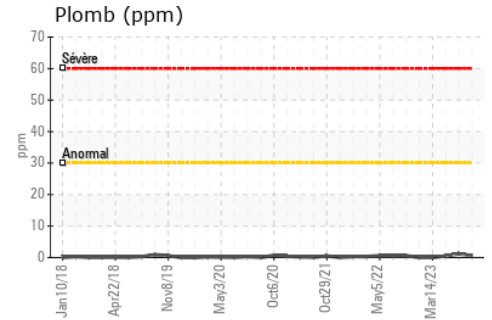
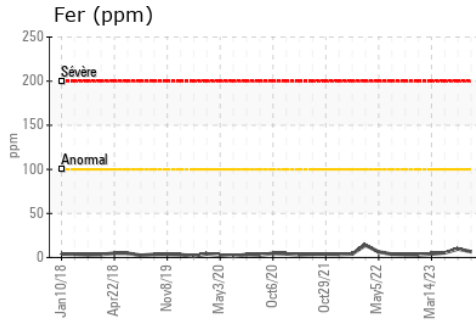
| FLUID DEGRADATION | | methode | limite/base | actuel | passé1 | passé2 |
|-------------------|----------|-------------|-------------|-------------|--------|--------|
| Oxydation | Abs/.1mm | ASTM D7414* | >25 | 25.0 | 28.0 | 24.3 |



| VISUEL | methode | limite/base | actuel | passé1 | passé2 |
|----------------|---------|-------------|--------|--------|--------|
| Eau émulsifiée | scalar | Visual* | >0.2 | NEG | NEG |
| Eau libre | scalar | Visual* | | NEG | NEG |

| PROPRIÉTÉS DU FLUID | methode | limite/base | actuel | passé1 | passé2 |
|---------------------|---------|---------------|--------|--------|--------|
| Visc 100°C | cSt | ASTM D7279(m) | 11.9 | 11.6 | 11.3 |

GRAPHIQUES



Laboratoire : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
N° d'échantillon : LH0277110 **Reçu** : 23 Oct 2023
N° de laboratoire : 02590904 **Diagnostique** : 23 Oct 2023
Numéro unique : 5667983 **Diagnostiqueur** : Kevin Marson
Analyse : MOB 1

J.D. Irving
 Truro Sawmill, 529 Valley Dale Road
 Truro, NS
 CA B2N 5C5
 Contact: Sheldon Richardson
 richardson.sheldon@jdirving.com
 T: (902)890-9419
 F:

Pour discuter cette 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.