



LIEBHERR

RAPPORT D'ANALYSE D'HUILE

| | |
|----------------|--------|
| USURE | NORMAL |
| CONTAMINATION | NORMAL |
| ÉTAT DU FLUIDE | NORMAL |



Secteur
(365671)
Identité de la machine
LIEBHERR R936 051134-1828
Composant
Moteur diesel
Fluid
PETRO CANADA SUPREME 5W30 (32 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 | | LH0284135 | LH0235124 | --- |
| Date d'échant. | | Client Info | | 14 Mar 2024 | 09 Dec 2022 | --- |
| Âge d la Machine | hrs | Client Info | | 0 | 2151 | --- |
| Âge de l'huile | hrs | Client Info | | 0 | 0 | --- |
| Âge du filtre | hrs | Client Info | | 0 | 0 | --- |
| Huile changée | | Client Info | | Changed | Changed | --- |
| Filtre changé | | Client Info | | N/A | N/A | --- |
| Statut de l'échant. | | | | NORMAL | SEVERE | --- |

USURE

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

| | | | | | | |
|-----------|-----|---------------|------|--------------|-------|-----|
| Fer | ppm | ASTM D5185(m) | >100 | 12 | 28 | --- |
| Chrome | ppm | ASTM D5185(m) | >5 | <1 | 2 | --- |
| Nickel | ppm | ASTM D5185(m) | >5 | <1 | 0 | --- |
| Titane | ppm | ASTM D5185(m) | | 0 | <1 | --- |
| Argent | ppm | ASTM D5185(m) | >3 | 0 | 0 | --- |
| Aluminium | ppm | ASTM D5185(m) | >15 | 2 | 4 | --- |
| Plomb | ppm | ASTM D5185(m) | >30 | 2 | 14 | --- |
| Cuivre | ppm | ASTM D5185(m) | >125 | 45 | ▲ 324 | --- |
| Étain | ppm | ASTM D5185(m) | >5 | <1 | 2 | --- |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | --- |

CONTAMINATION

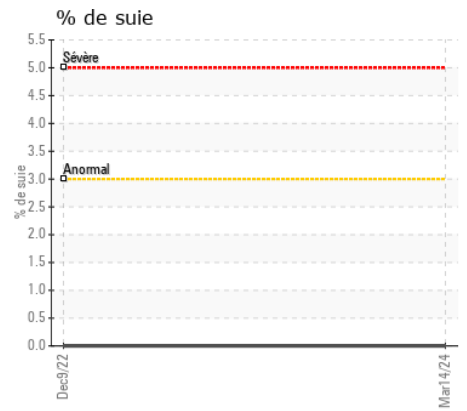
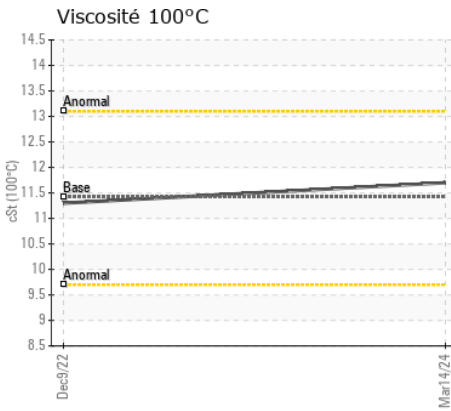
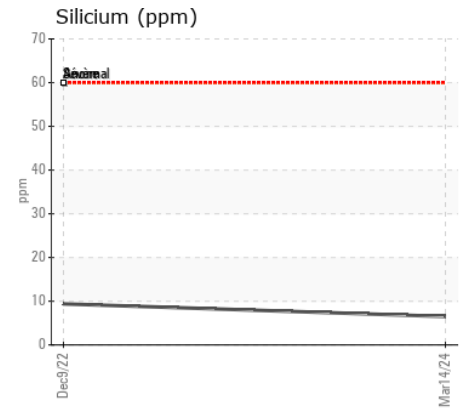
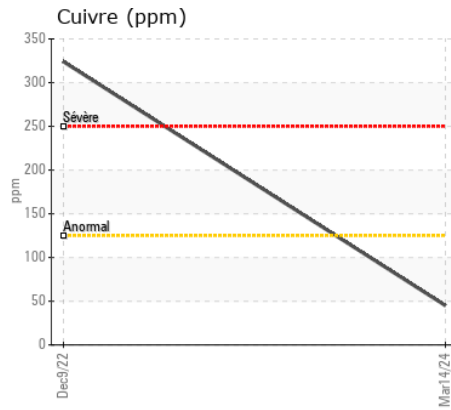
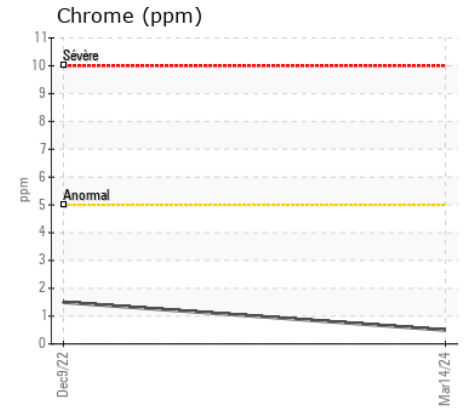
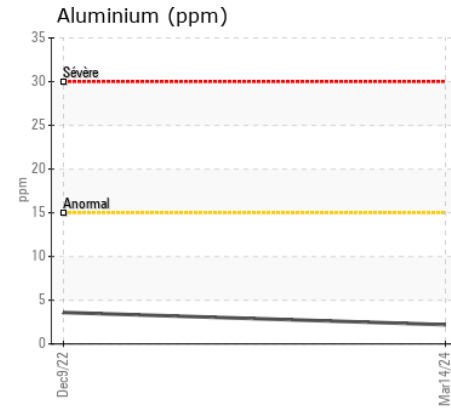
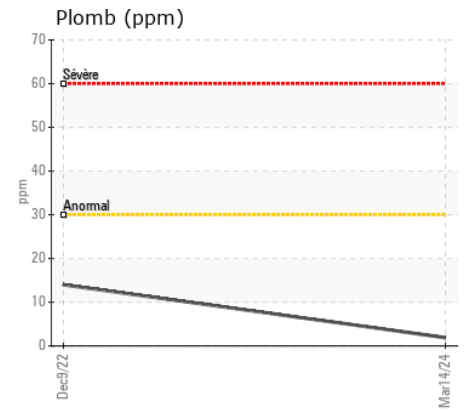
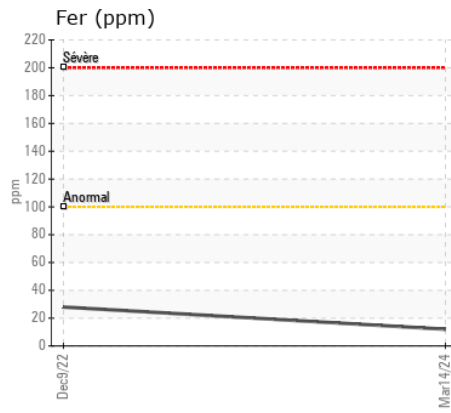
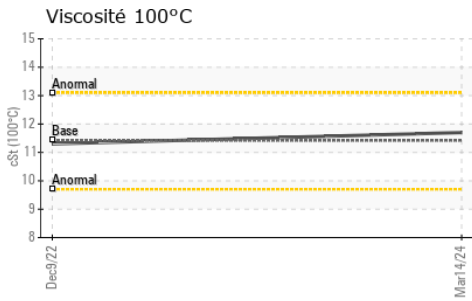
Il n'y a aucun indice de contamination dans l'huile.

| | | | | | | |
|----------------|----------|---------------|------|----------------|------|-----|
| Silicium | ppm | ASTM D5185(m) | >60 | 6 | 9 | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | 3 | 4 | --- |
| Essence | | WC Method | >5 | <1.0 | 1.5 | --- |
| L'eau | | WC Method | >0.2 | NEG | NEG | --- |
| Glycol | | WC Method | | NEG | NEG | --- |
| % de suie | % | ASTM D7844* | >3 | 0 | 0 | --- |
| Nitration | Abs/cm | ASTM D7624* | >20 | 11.5 | 15.4 | --- |
| Sulfatation | Abs/.1mm | ASTM D7415* | >30 | 25.4 | 37.0 | --- |
| Eau émulsifiée | scalar | Visual* | >0.2 | NEG | NEG | --- |

ÉTAT DU FLUIDE

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

| | | | | | | |
|------------|----------|---------------|-------|-------------|------|-----|
| Sodium | ppm | ASTM D5185(m) | | 4 | 4 | --- |
| Bore | ppm | ASTM D5185(m) | 186 | 25 | 29 | --- |
| Baryum | ppm | ASTM D5185(m) | <1 | 2 | 19 | --- |
| Molybdène | ppm | ASTM D5185(m) | 79 | 46 | 37 | --- |
| Manganèse | ppm | ASTM D5185(m) | 0 | 0 | 2 | --- |
| Magnésium | ppm | ASTM D5185(m) | 578 | 895 | 717 | --- |
| Calcium | ppm | ASTM D5185(m) | 1002 | 1212 | 1712 | --- |
| Phosphore | ppm | ASTM D5185(m) | 745 | 938 | 827 | --- |
| Zinc | ppm | ASTM D5185(m) | 837 | 1136 | 941 | --- |
| Soufre | ppm | ASTM D5185(m) | 2502 | 2546 | 1888 | --- |
| Oxydation | Abs/.1mm | ASTM D7414* | >25 | 25.7 | 44.7 | --- |
| Visc 100°C | cSt | ASTM D7279(m) | 11.42 | 11.7 | 11.3 | --- |



ISO 17025:2017
Accredited
Laboratory

Laboratoire : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
N° d'échantillon : LH0284135
N° de laboratoire : 02622294
Numéro unique : 5747413
Analyse : MOB 1

LOCATION EMA/EMA RENTALS LTD
 145 RUE RICHER
 LACHINE, QC
 CA H8R 1R4
 Contact: Service Manager

Reçu : 15 Mar 2024
Tested : 15 Mar 2024
Diagnostiqué : 15 Mar 2024 - Kevin Marson

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: