



LIEBHERR

RAPPORT D'ANALYSE D'HUILE

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



Identité de la machine
LIEBHERR LH22M 083532-1209

Composant
Moteur diesel

Fluide
PETRO CANADA SUPREME 5W30 (22 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 | | LH | LH | LH0251208 |
| Date d'échant. | | Client Info | | 13 Nov 2023 | 17 Jul 2023 | 22 Feb 2023 |
| Âge d la Machine | hrs | Client Info | | 7950 | 7420 | 6940 |
| Âge de l'huile | hrs | Client Info | | 0 | 0 | 0 |
| Âge du filtre | hrs | Client Info | | 0 | 0 | 0 |
| Huile changée | | Client Info | | Changed | Changed | Changed |
| Filtre changé | | Client Info | | N/A | N/A | N/A |
| Statut de l'échant. | | | | NORMAL | NORMAL | NORMAL |

USURE

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

| | | | | | | |
|-----------|-----|---------------|------|--------------|----|----|
| Fer | ppm | ASTM D5185(m) | >100 | 7 | 7 | 6 |
| Chrome | ppm | ASTM D5185(m) | >5 | 0 | <1 | 0 |
| Nickel | ppm | ASTM D5185(m) | >5 | <1 | 0 | <1 |
| Titane | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Argent | ppm | ASTM D5185(m) | >3 | <1 | 0 | 2 |
| Aluminium | ppm | ASTM D5185(m) | >15 | 2 | 2 | 2 |
| Plomb | ppm | ASTM D5185(m) | >30 | 2 | <1 | <1 |
| Cuivre | ppm | ASTM D5185(m) | >125 | 2 | 2 | 1 |
| Étain | ppm | ASTM D5185(m) | >5 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

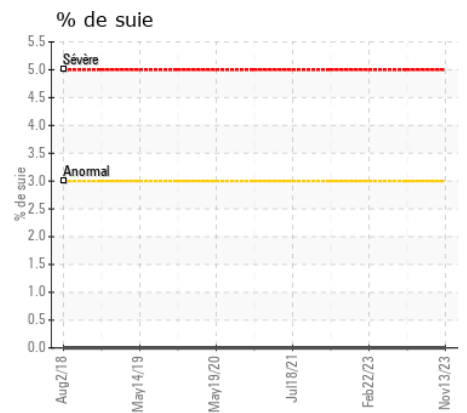
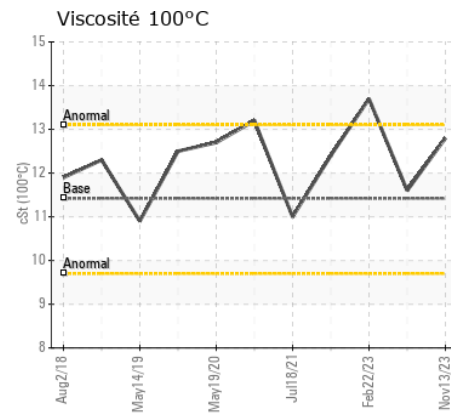
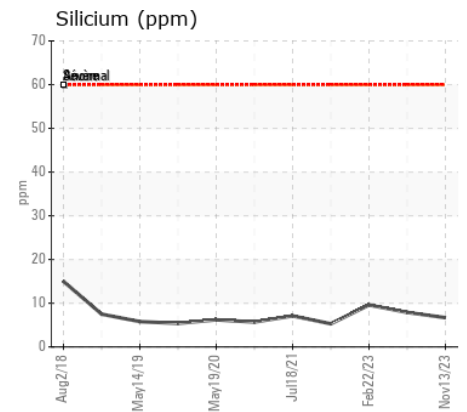
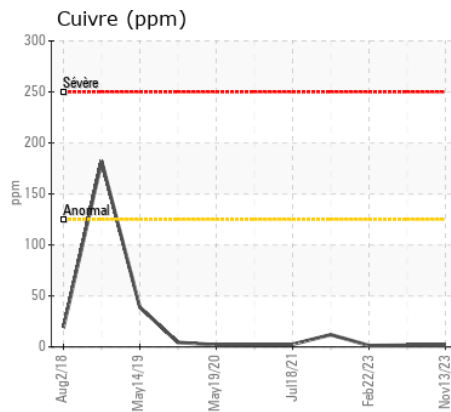
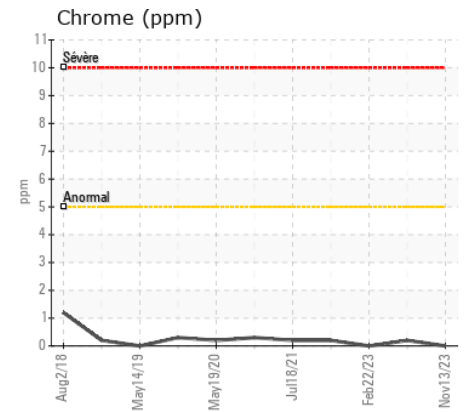
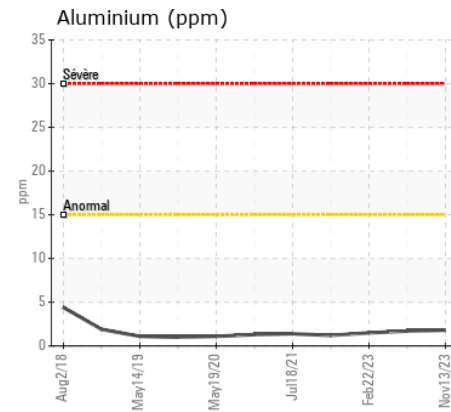
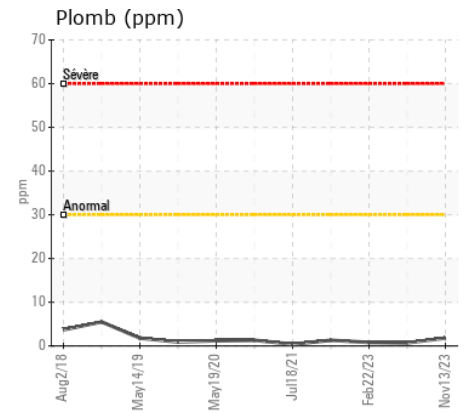
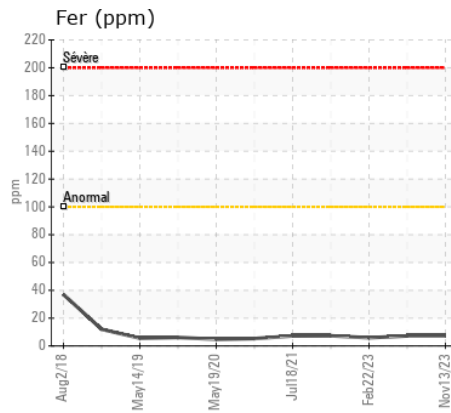
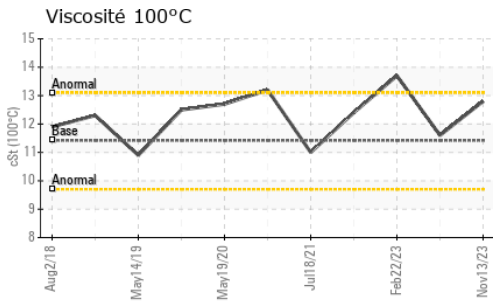
Il n'y a aucun indice de contamination dans l'huile.

| | | | | | | |
|----------------|----------|---------------|------|----------------|------|------|
| Silicium | ppm | ASTM D5185(m) | >60 | 7 | 8 | 10 |
| Potassium | ppm | ASTM D5185(m) | >20 | 0 | <1 | 0 |
| Essence | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| L'eau | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| % de suie | % | ASTM D7844* | >3 | 0 | 0 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 7.3 | 8.7 | 6.3 |
| Sulfatation | Abs/.1mm | ASTM D7415* | >30 | 19.3 | 21.0 | 18.8 |
| Eau émulsifiée | scalar | Visual* | >0.2 | NEG | NEG | NEG |

ÉTAT DU FLUIDE

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

| | | | | | | |
|------------|----------|---------------|-------|--------------|------|------|
| Sodium | ppm | ASTM D5185(m) | | 2 | 4 | 1 |
| Bore | ppm | ASTM D5185(m) | 186 | 3 | 20 | 2 |
| Baryum | ppm | ASTM D5185(m) | <1 | <1 | 0 | 0 |
| Molybdène | ppm | ASTM D5185(m) | 79 | 62 | 59 | 62 |
| Manganèse | ppm | ASTM D5185(m) | 0 | 0 | <1 | <1 |
| Magnésium | ppm | ASTM D5185(m) | 578 | 1007 | 1154 | 1015 |
| Calcium | ppm | ASTM D5185(m) | 1002 | 1138 | 899 | 1176 |
| Phosphore | ppm | ASTM D5185(m) | 745 | 1007 | 1086 | 1136 |
| Zinc | ppm | ASTM D5185(m) | 837 | 1277 | 1275 | 1279 |
| Soufre | ppm | ASTM D5185(m) | 2502 | 2433 | 2653 | 2702 |
| Oxydation | Abs/.1mm | ASTM D7414* | >25 | 15.9 | 18.7 | 13.8 |
| Visc 100°C | cSt | ASTM D7279(m) | 11.42 | 12.8 | 11.6 | 13.7 |



ISO 17025:2017
Accredited
Laboratory

Laboratoire : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
N° d'échantillon : LH
N° de laboratoire : 02601399
Numéro unique : 5694484
Analyse : MOB 1
Reçu : 07 Dec 2023
Diagnostiqué : 07 Dec 2023
Diagnostiqueur : Wes Davis

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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