



LIEBHERR

RAPPORT D'ANALYSE D'HUILE

USURE**NORMAL****CONTAMINATION****NORMAL****ÉTAT DU FLUIDE****NORMAL**

Identité de la machine

LIEBHERR L538 022866-433

Composant

Moteur diesel

Fluide

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 | | LH0135217 | LH0234205 | LH0234300 |
| Date d'échant. | | Client Info | | 05 Jul 2023 | 08 Dec 2022 | 12 Aug 2022 |
| Âge d la Machine | hrs | Client Info | | 19431 | 18432 | 18016 |
| 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 | N/A |
| 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 | 6 | 5 | 6 |
| Chrome | ppm | ASTM D5185(m) | >5 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >5 | 0 | 0 | 0 |
| Titane | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| Argent | ppm | ASTM D5185(m) | >3 | 0 | 0 | 0 |
| Aluminium | ppm | ASTM D5185(m) | >15 | 1 | 1 | 1 |
| Plomb | ppm | ASTM D5185(m) | >30 | 0 | <1 | <1 |
| Cuivre | ppm | ASTM D5185(m) | >125 | <1 | 1 | 2 |
| Étain | ppm | ASTM D5185(m) | >5 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

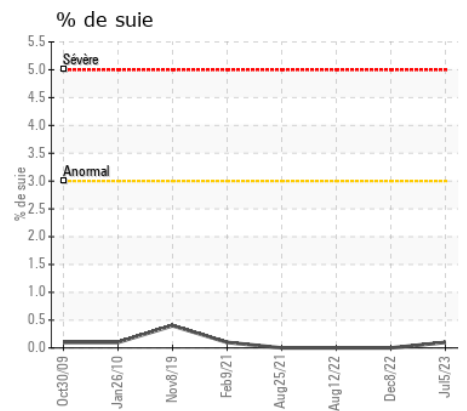
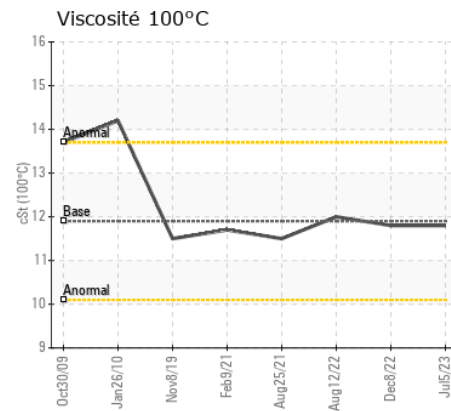
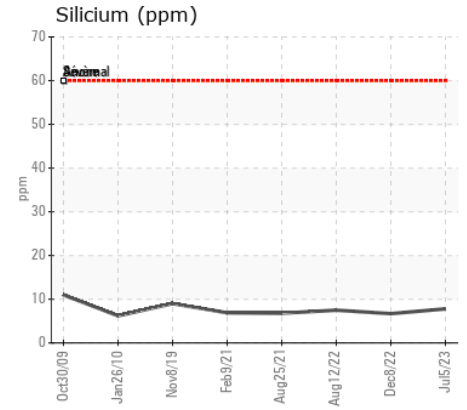
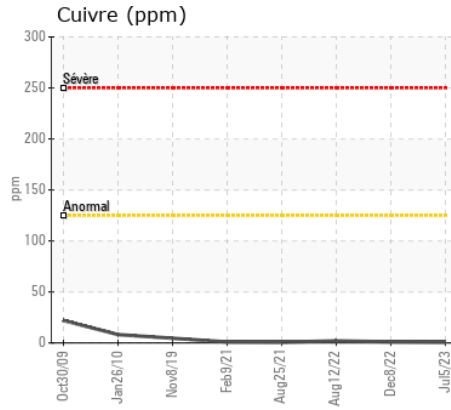
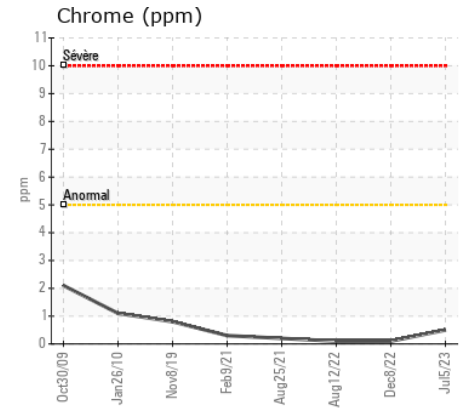
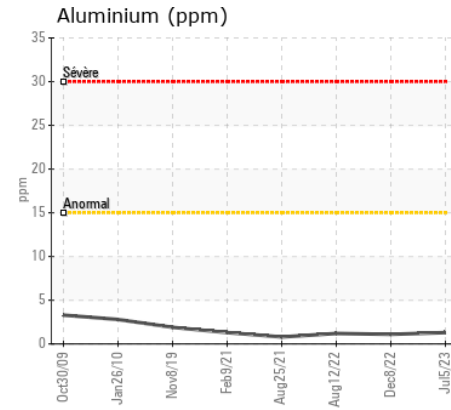
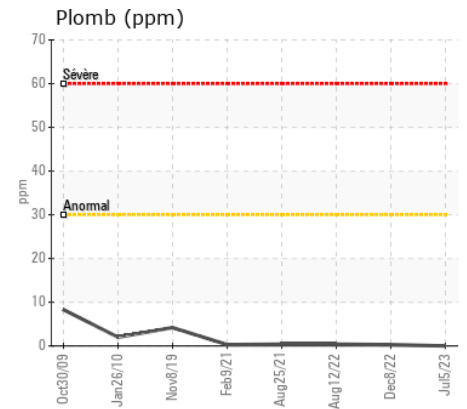
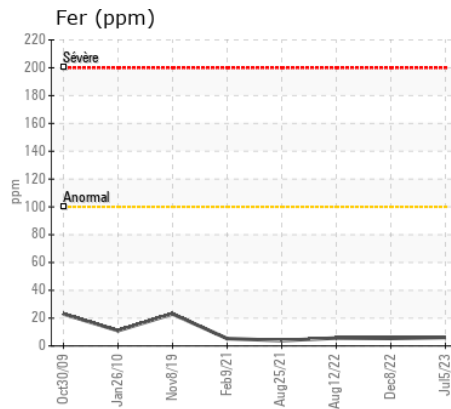
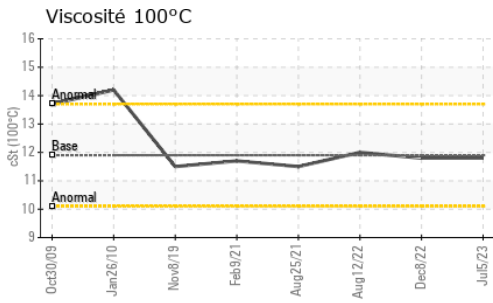
Il n'y a aucun indice de contamination dans l'huile.

| | | | | | | |
|----------------|----------|---------------|------|----------------|------|------|
| Silicium | ppm | ASTM D5185(m) | >60 | 8 | 7 | 8 |
| Potassium | ppm | ASTM D5185(m) | >20 | 0 | 0 | <1 |
| Essence | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Glycol | | WC Method | | NEG | NEG | NEG |
| % de suie | % | ASTM D7844* | >3 | 0.1 | 0 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 8.1 | 8.3 | 4.4 |
| Sulfatation | Abs/.1mm | ASTM D7415* | >30 | 19.8 | 20.8 | 14.6 |
| 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) | | 4 | 4 | 4 |
| Bore | ppm | ASTM D5185(m) | 0 | 43 | 49 | 48 |
| Baryum | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Molybdène | ppm | ASTM D5185(m) | 64 | 62 | 56 | 57 |
| Manganèse | ppm | ASTM D5185(m) | 0 | 0 | <1 | <1 |
| Magnésium | ppm | ASTM D5185(m) | 1160 | 1127 | 1097 | 1147 |
| Calcium | ppm | ASTM D5185(m) | 820 | 826 | 854 | 844 |
| Phosphore | ppm | ASTM D5185(m) | 1160 | 1072 | 1081 | 1053 |
| Zinc | ppm | ASTM D5185(m) | 1260 | 1202 | 1206 | 1240 |
| Soufre | ppm | ASTM D5185(m) | 3000 | 2831 | 2829 | 2947 |
| Oxydation | Abs/.1mm | ASTM D7414* | >25 | 17.5 | 17.7 | 8.5 |
| Visc 100°C | cSt | ASTM D7279(m) | 11.9 | 11.8 | 11.8 | 12.0 |



ISO 17025:2017
Accredited
Laboratory

Laboratoire : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 RMR Regie des Matieres Residuelles du LSI
N° d'échantillon : LH0135217 **Reçu** : 06 Jul 2023
N° de laboratoire : 02568198 **Diagnostic** : 06 Jul 2023
Numéro unique : 5605244 **Diagnostic** : Wes Davis
Analyse : MOBCE

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.
 Validity of results and interpretation are based on the sample and information as supplied.

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