



LIEBHERR

RAPPORT D'ANALYSE D'HUILE

USURE

SÉVÈRE

CONTAMINATION

ANORMAL

ÉTAT DU FLUIDE

NORMAL



Identité de la machine

LIEBHERR L586 048608-1334

Composant

Système hydraulique

Fluide

PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (--- GAL)

RECOMMANDATION

Nous recommandons le remplacement des filtres de ce composant. Confirm the source of the lubricant being utilized for top-up/fill. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---------------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Numéro d'échant. | | Client Info | | LH0249895 | LH0246547 | LH0246551 |
| Date d'échant. | | Client Info | | 12 Jul 2023 | 11 May 2023 | 30 Apr 2023 |
| Âge d la Machine | hrs | Client Info | | 18105 | 17103 | 15000 |
| Âge de l'huile | hrs | Client Info | | 0 | 0 | 0 |
| Âge du filtre | hrs | Client Info | | 0 | 0 | 0 |
| Huile changée | | Client Info | | Not Changd | Not Changd | Changed |
| Filtre changé | | Client Info | | N/A | N/A | N/A |
| Statut de l'échant. | | | | SEVERE | ABNORMAL | SEVERE |

USURE

Le taux de fer est important. Le bas indice ferreux (PQ) indique que l'usure ferreuse est due à de la corrosion.

| PQ | UOM | Method | Limit/Abn | Current | History1 | History2 |
|-------------|--------|---------------|-----------|--------------|----------|----------|
| PQ | | ASTM D8184* | >50 | 26 | --- | 4 |
| Fer | ppm | ASTM D5185(m) | >50 | 91 | 34 | 111 |
| Chrome | ppm | ASTM D5185(m) | >5 | 2 | 2 | 7 |
| Nickel | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Titane | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Argent | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Aluminium | ppm | ASTM D5185(m) | >5 | <1 | <1 | <1 |
| Plomb | ppm | ASTM D5185(m) | >15 | 3 | <1 | <1 |
| Cuivre | ppm | ASTM D5185(m) | >10 | 3 | 2 | 2 |
| Étain | ppm | ASTM D5185(m) | >2 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Métal blanc | scalar | Visual* | NONE | NONE | NONE | NONE |
| Bronze | scalar | Visual* | NONE | NONE | NONE | NONE |

CONTAMINATION

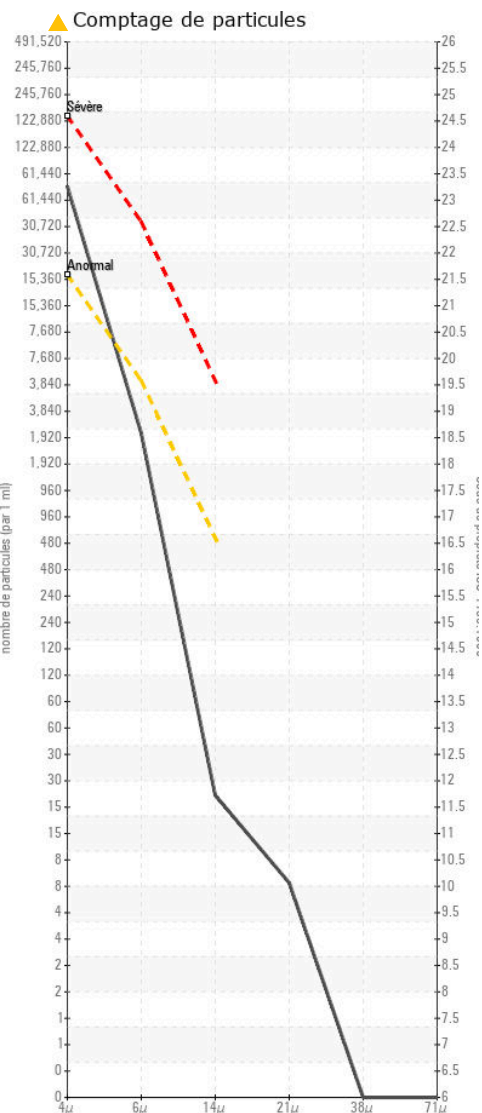
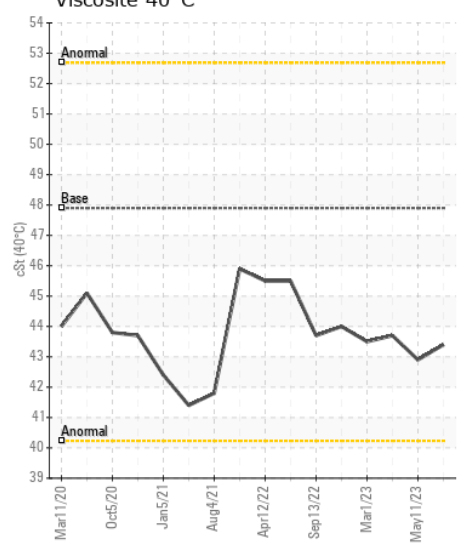
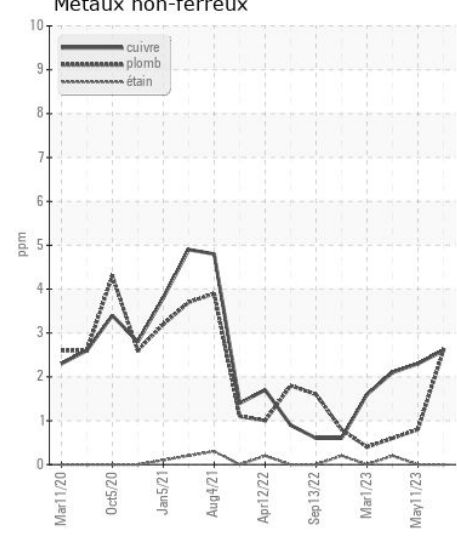
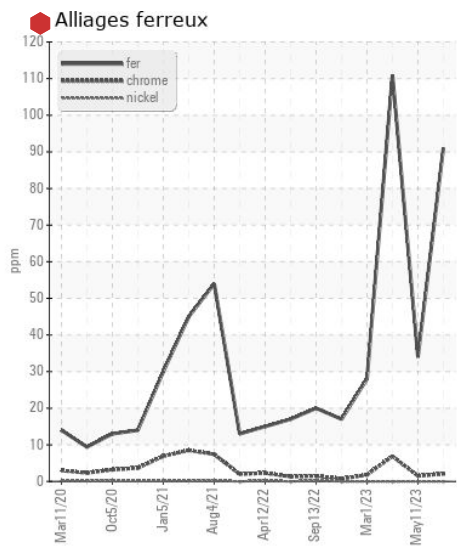
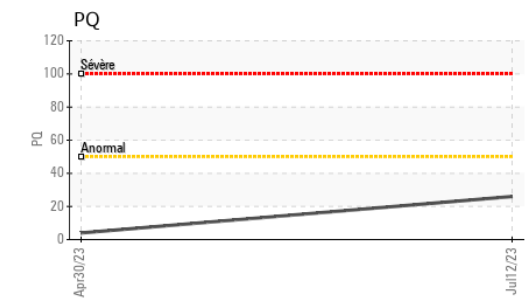
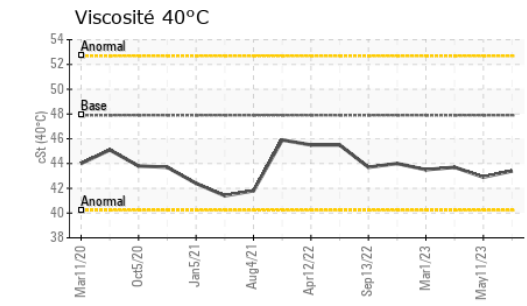
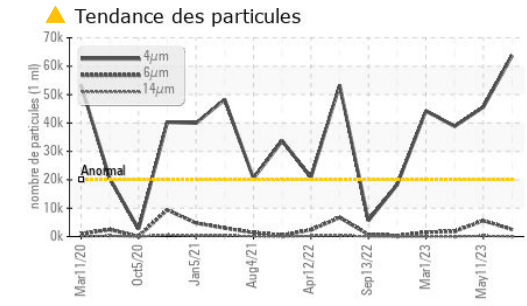
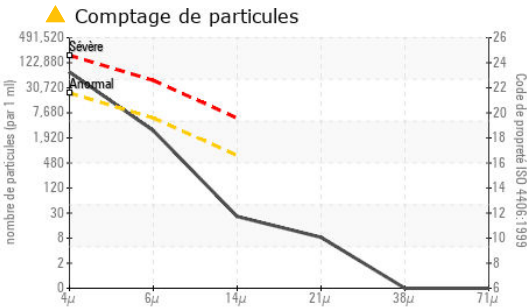
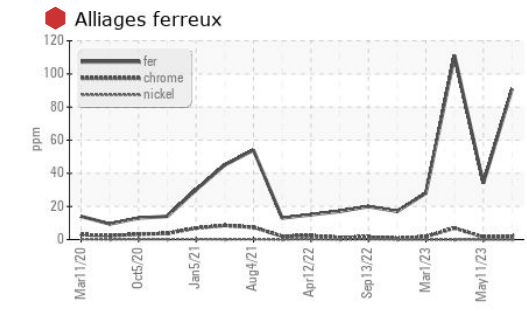
Il y a une quantité modérée de particules (de 4 à 14 microns) dans l'huile.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---------------------|--------|---------------|-----------|-----------------|----------|----------|
| Silicium | ppm | ASTM D5185(m) | >15 | 2 | 2 | 3 |
| Potassium | ppm | ASTM D5185(m) | >20 | 2 | 1 | 1 |
| Particules >4µ | | ASTM D7647 | >20000 | 63701 | 45557 | 38800 |
| Particules >6µ | | ASTM D7647 | >5000 | 2513 | 5590 | 1831 |
| Particules >14µ | | ASTM D7647 | >640 | 22 | 245 | 22 |
| Particules >21µ | | ASTM D7647 | >160 | 7 | 50 | 9 |
| Particules >38µ | | ASTM D7647 | >40 | 0 | 2 | 1 |
| Particules >71µ | | ASTM D7647 | >10 | 0 | 0 | 0 |
| Propreté de l'huile | | ISO 4406 (c) | >21/19/16 | 23/19/12 | 23/20/15 | 22/18/12 |
| Limon | scalar | Visual* | NONE | NONE | NONE | NONE |
| Débris | scalar | Visual* | NONE | NONE | NONE | NONE |
| Saleté | scalar | Visual* | NONE | NONE | NONE | NONE |
| Apparence | scalar | Visual* | NORML | NORML | NORML | NORML |
| Odeur | scalar | Visual* | NORML | NORML | NORML | NORML |
| Eau émulsifiée | scalar | Visual* | >0.1 | NEG | NEG | NEG |

ÉTAT DU FLUIDE

Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|-----------|-----|---------------|-----------|--------------|----------|----------|
| Sodium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| Bore | ppm | ASTM D5185(m) | 0 | <1 | 4 | <1 |
| Baryum | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Molybdène | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Manganèse | ppm | ASTM D5185(m) | 1 | 2 | <1 | 2 |
| Magnésium | ppm | ASTM D5185(m) | 0 | 2 | 4 | <1 |
| Calcium | ppm | ASTM D5185(m) | 100 | 87 | 244 | 99 |
| Phosphore | ppm | ASTM D5185(m) | 670 | 205 | 307 | 179 |
| Zinc | ppm | ASTM D5185(m) | 850 | 107 | 224 | 46 |
| Soufre | ppm | ASTM D5185(m) | 1600 | 633 | 1017 | 586 |
| Visc 40°C | cSt | ASTM D7279(m) | 47.9 | 43.4 | 42.9 | 43.7 |



Laboratoire : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
N° d'échantillon : LH0249895 **Reçu** : 26 Jul 2023
N° de laboratoire : 02572393 **Diagnostiqué** : 27 Jul 2023
Numéro unique : 5617444 **Diagnostiqueur** : Kevin Marson
Analyse : MOB 1 (Additional Tests: PQ, PrtCount)

NEXOLIA, CHAPAS ENERGIE SEC
 140 RUE DE LA CONGENERATION
 CHAPAS, 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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