



LIEBHERR

RAPPORT D'ANALYSE D'HUILE

USURE

ANORMAL

CONTAMINATION

NORMAL

ÉTAT DU FLUIDE

NORMAL



Identité de la machine

LIEBHERR LH50M 082257-1203

Composant

Différentiel Avant

Fluide

PETRO CANADA TRAXON 75W90 SYNTHETIC (40 LTR)

RECOMMANDATION

Nous vous recommandons de vidanger l'huile de ce composant si vous ne l'avez pas déjà fait. 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 | | LH0209289 | LH0261028 | LH0234582 |
| Date d'échant. | | Client Info | | 14 Aug 2023 | 08 Jun 2023 | 13 Jul 2022 |
| Âge d la Machine | hrs | Client Info | | 4491 | 18200 | 18200 |
| Âge de l'huile | hrs | Client Info | | 0 | 0 | 0 |
| Âge du filtre | hrs | Client Info | | 0 | 0 | 0 |
| Huile changée | | Client Info | | N/A | Changed | Changed |
| Filtre changé | | Client Info | | None | N/A | N/A |
| Statut de l'échant. | | | | ABNORMAL | NORMAL | NORMAL |

USURE

Nous avons noté une forte hausse du niveau de fer. Usure des engrenages. Le bas indice ferreux (PQ) indique que l'usure ferreuse est due à de la corrosion.

| | | | | Current | History1 | History2 |
|-------------|--------|---------------|------|--------------|----------|----------|
| PQ | | ASTM D8184* | >270 | 0 | --- | --- |
| Fer | ppm | ASTM D5185(m) | >150 | ▲ 181 | 8 | 6 |
| Chrome | ppm | ASTM D5185(m) | >2 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Titane | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Argent | ppm | ASTM D5185(m) | >4 | <1 | 0 | 0 |
| Aluminium | ppm | ASTM D5185(m) | >7 | 5 | <1 | 0 |
| Plomb | ppm | ASTM D5185(m) | >4 | 0 | <1 | <1 |
| Cuivre | ppm | ASTM D5185(m) | >135 | 4 | 1 | 2 |
| Étain | ppm | ASTM D5185(m) | >3 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Métal blanc | scalar | Visual* | NONE | NONE | NONE | NONE |
| Bronze | scalar | Visual* | NONE | NONE | NONE | NONE |

CONTAMINATION

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

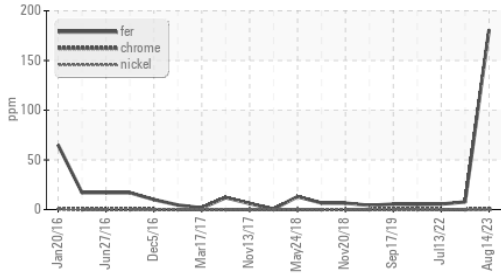
| | | | | Current | History1 | History2 |
|----------------|--------|---------------|-------|--------------|----------|----------|
| Silicium | ppm | ASTM D5185(m) | >30 | 25 | 4 | <1 |
| Potassium | ppm | ASTM D5185(m) | >20 | 2 | <1 | <1 |
| Limon | scalar | Visual* | NONE | VLITE | NONE | NONE |
| 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* | >0.2 | NEG | NEG | NEG |

ÉTAT DU FLUIDE

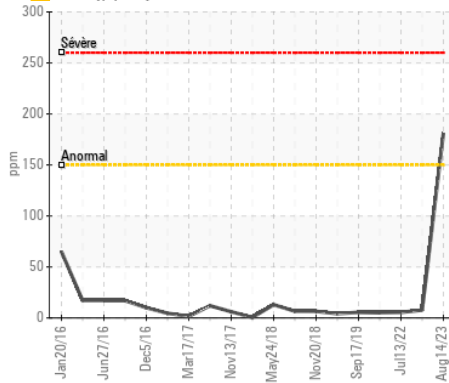
L'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

| | | | | Current | History1 | History2 |
|-----------|-----|---------------|-------|--------------|----------|----------|
| Sodium | ppm | ASTM D5185(m) | | 9 | <1 | 1 |
| Bore | ppm | ASTM D5185(m) | 328 | 51 | 323 | 316 |
| Baryum | ppm | ASTM D5185(m) | 1 | <1 | 0 | 0 |
| Molybdène | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Manganèse | ppm | ASTM D5185(m) | | 1 | <1 | 0 |
| Magnésium | ppm | ASTM D5185(m) | 1 | 6 | 3 | 3 |
| Calcium | ppm | ASTM D5185(m) | 7 | 77 | 22 | 10 |
| Phosphore | ppm | ASTM D5185(m) | 1145 | 933 | 1349 | 1241 |
| Zinc | ppm | ASTM D5185(m) | 3 | 38 | 10 | 9 |
| Soufre | ppm | ASTM D5185(m) | 17909 | 22012 | 21978 | 21575 |
| Visc 40°C | cSt | ASTM D7279(m) | 99.6 | 91.0 | 103 | 103 |

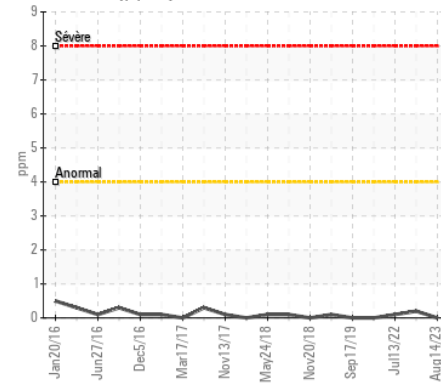
▲ **Alliages ferreux**



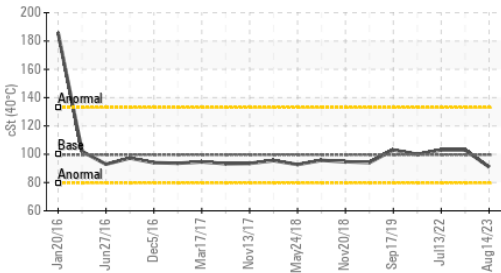
▲ **Fer (ppm)**



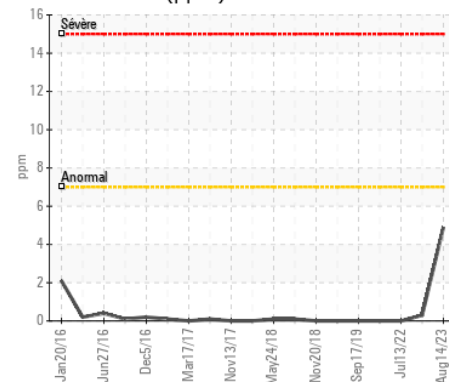
Plomb (ppm)



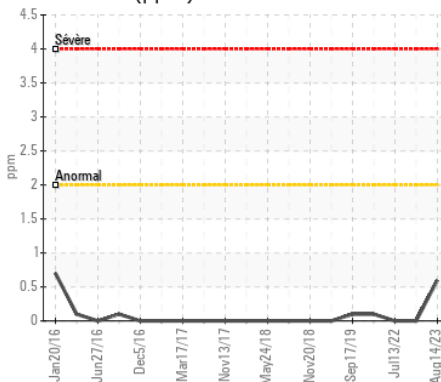
Viscosité 40°C



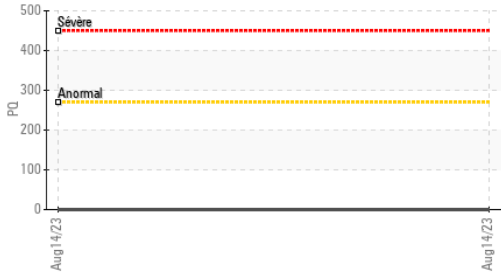
Aluminium (ppm)



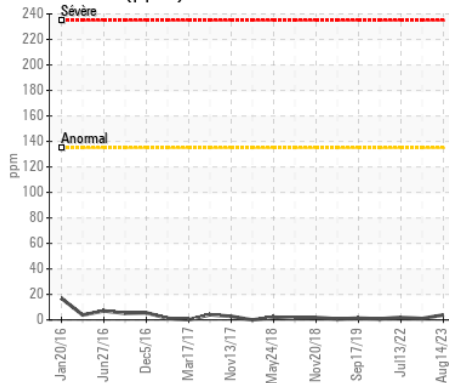
Chrome (ppm)



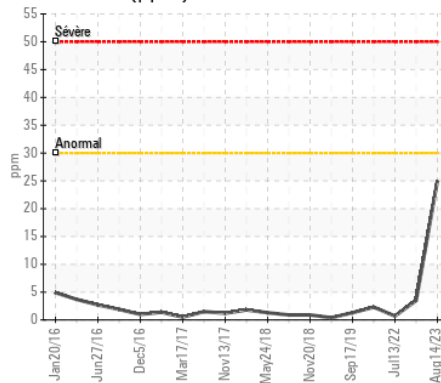
PQ



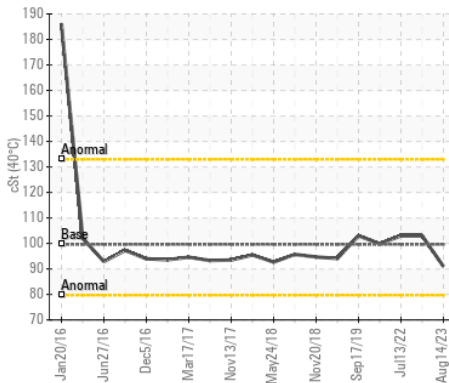
Cuivre (ppm)



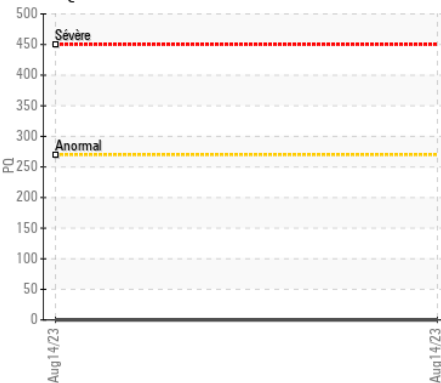
Silicium (ppm)



Viscosité 40°C



PQ



ISO 17025:2017
Accredited
Laboratory

Laboratoire : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

N° d'échantillon : LH0209289

N° de laboratoire : 02590367

Numéro unique : 5659433

Analyse : MOBCE (Additional Tests: PQ, Visual)

Reçu : 19 Oct 2023

Diagnostiqué : 20 Oct 2023

Diagnostiqueur : Kevin Marson

Fortress Specialty Cellulose Inc

451 Rue Victoria

Thurso, QC

CA J0X 3B0

Contact: Charles Raby

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T: (819)985-2233

F:

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.