



|                |               |
|----------------|---------------|
| USURE          | <b>NORMAL</b> |
| CONTAMINATION  | <b>NORMAL</b> |
| ÉTAT DU FLUIDE | <b>NORMAL</b> |

Identité de la machine

**FREIGHTLINER 3702**

Composant

**Moteur diesel**

Fluide

**PETRO CANADA DURON SHP 10W30 (--- 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 |           | <b>PC0076013</b>   | PC0067748   | PC0065091   |
| Date d'échant.      |     | Client Info |           | <b>01 Aug 2023</b> | 27 Feb 2023 | 22 Aug 2022 |
| Âge d la Machine    | kms | Client Info |           | <b>386993</b>      | 351791      | 0           |
| Âge de l'huile      | kms | Client Info |           | <b>35202</b>       | 47242       | 0           |
| Âge du filtre       | kms | Client Info |           | <b>35202</b>       | 47242       | 0           |
| Huile changée       |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Filtre changé       |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Statut de l'échant. |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

**USURE**

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

|             |        |               |      |              |     |     |
|-------------|--------|---------------|------|--------------|-----|-----|
| Fer         | ppm    | ASTM D5185(m) | >100 | <b>12</b>    | 17  | 16  |
| Chrome      | ppm    | ASTM D5185(m) | >20  | <b>1</b>     | 1   | 2   |
| Nickel      | ppm    | ASTM D5185(m) | >4   | <b>0</b>     | <1  | 0   |
| Titane      | ppm    | ASTM D5185(m) |      | <b>0</b>     | <1  | <1  |
| Argent      | ppm    | ASTM D5185(m) | >3   | <b>0</b>     | 0   | 0   |
| Aluminium   | ppm    | ASTM D5185(m) | >20  | <b>4</b>     | 6   | 5   |
| Plomb       | ppm    | ASTM D5185(m) | >40  | <b>0</b>     | 0   | <1  |
| Cuivre      | ppm    | ASTM D5185(m) | >330 | <b>4</b>     | 6   | 7   |
| Étain       | ppm    | ASTM D5185(m) | >15  | <b>&lt;1</b> | 1   | 1   |
| Vanadium    | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0   | 0   |
| Métal blanc | scalar | Visual*       | NONE | <b>NONE</b>  | --- | --- |
| Bronze      | scalar | Visual*       | NONE | <b>NONE</b>  | --- | --- |

**CONTAMINATION**

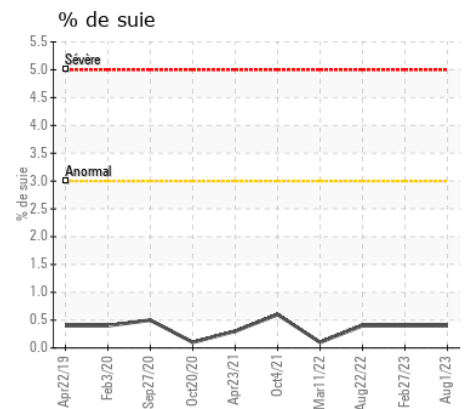
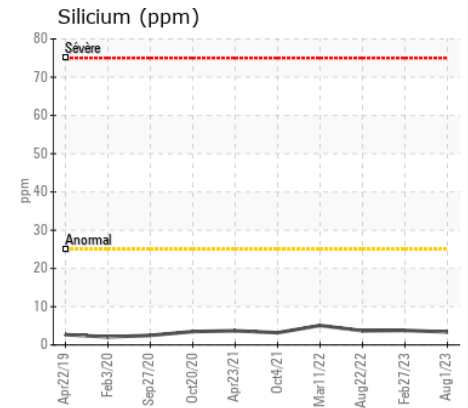
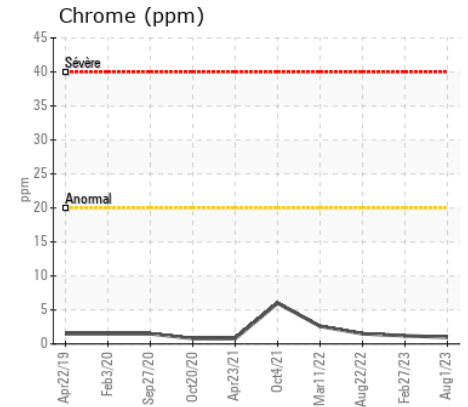
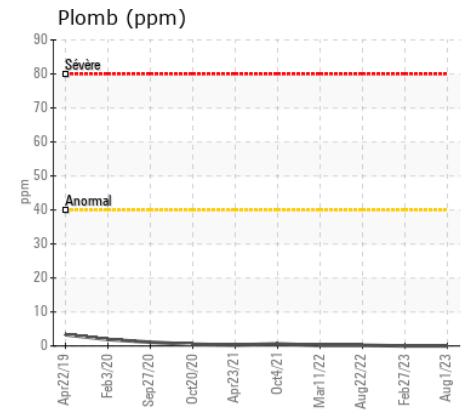
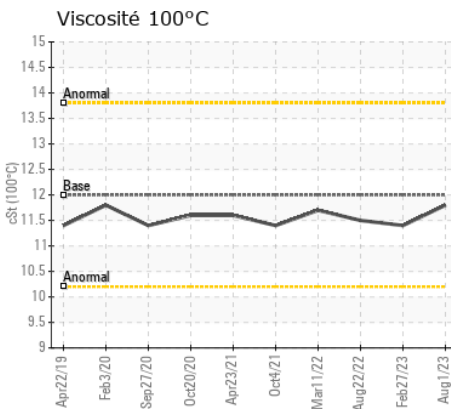
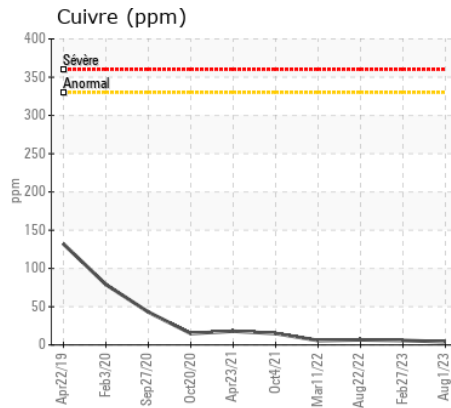
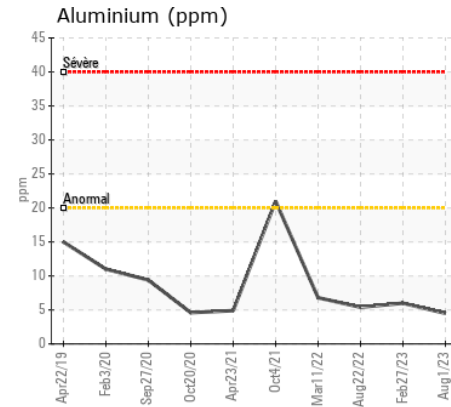
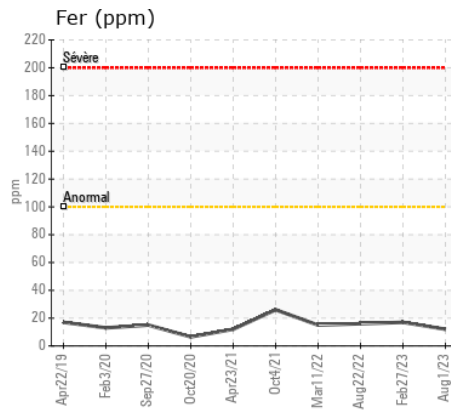
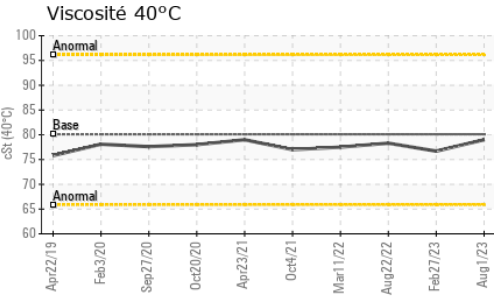
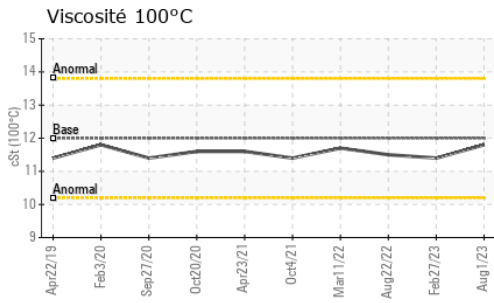
Il n'y a aucun indice de contamination dans l'huile.

|                |          |               |       |                |       |       |
|----------------|----------|---------------|-------|----------------|-------|-------|
| Silicium       | ppm      | ASTM D5185(m) | >25   | <b>3</b>       | 4     | 4     |
| Potassium      | ppm      | ASTM D5185(m) | >20   | <b>1</b>       | 2     | 4     |
| Essence        |          | WC Method     | >5    | <b>&lt;1.0</b> | <1.0  | <1.0  |
| Glycol         |          | WC Method     |       | <b>NEG</b>     | NEG   | NEG   |
| % de suie      | %        | ASTM D7844*   | >3    | <b>0.4</b>     | 0.4   | 0.4   |
| Nitration      | Abs/cm   | ASTM D7624*   | >20   | <b>8.6</b>     | 8.8   | 8.7   |
| Sulfatation    | Abs/.1mm | ASTM D7415*   | >30   | <b>20.5</b>    | 22.9  | 21.9  |
| Limon          | scalar   | Visual*       | NONE  | <b>VLITE</b>   | ---   | ---   |
| Débris         | scalar   | Visual*       | NONE  | <b>NONE</b>    | ---   | ---   |
| Saleté         | scalar   | Visual*       | NONE  | <b>NONE</b>    | ---   | ---   |
| Apparence      | scalar   | Visual*       | NORML | <b>NORML</b>   | ---   | ---   |
| Odeur          | scalar   | Visual*       | NORML | <b>NORML</b>   | NORML | NORML |
| Eau émulsifiée | scalar   | Visual*       | >0.2  | <b>NEG</b>     | NEG   | NEG   |

**ÉTAT DU FLUIDE**

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

|                          |          |               |       |              |      |      |
|--------------------------|----------|---------------|-------|--------------|------|------|
| Sodium                   | ppm      | ASTM D5185(m) |       | <b>2</b>     | 2    | 2    |
| Bore                     | ppm      | ASTM D5185(m) | 2     | <b>2</b>     | 3    | 2    |
| Baryum                   | ppm      | ASTM D5185(m) | 0     | <b>0</b>     | 0    | 0    |
| Molybdène                | ppm      | ASTM D5185(m) | 50    | <b>59</b>    | 62   | 60   |
| Manganèse                | ppm      | ASTM D5185(m) | 0     | <b>&lt;1</b> | <1   | <1   |
| Magnésium                | ppm      | ASTM D5185(m) | 950   | <b>983</b>   | 996  | 987  |
| Calcium                  | ppm      | ASTM D5185(m) | 1050  | <b>1094</b>  | 1144 | 1138 |
| Phosphore                | ppm      | ASTM D5185(m) | 995   | <b>1074</b>  | 1069 | 1020 |
| Zinc                     | ppm      | ASTM D5185(m) | 1180  | <b>1221</b>  | 1223 | 1240 |
| Soufre                   | ppm      | ASTM D5185(m) | 2600  | <b>2443</b>  | 2423 | 2403 |
| Oxydation                | Abs/.1mm | ASTM D7414*   | >25   | <b>16.6</b>  | 17.7 | 17.6 |
| Visc 40°C                | cSt      | ASTM D7279(m) | 80.1  | <b>79.0</b>  | 76.7 | 78.3 |
| Visc 100°C               | cSt      | ASTM D7279(m) | 12.00 | <b>11.8</b>  | 11.4 | 11.5 |
| Indice de viscosité (VI) | Scale    | ASTM D2270*   | 144   | <b>143</b>   | 140  | 138  |



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : PC0076013  
**N° de laboratoire** : 02582703  
**Numéro unique** : 5643768  
**Analyse** : MOB 1 ( Additional Tests: KV40, VI, Visual )

**Reçu** : 15 Sep 2023  
**Diagnostiqué** : 15 Sep 2023  
**Diagnostiqueur** : Wes Davis

**LOCATION BROSSARD INC**  
 2190 HYMUS  
 DORVAL, QC  
 CA H9P 1J7  
 Contact: Shawn Lamoureux  
 slamoureux@brossard.com

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: