



|                 |               |
|-----------------|---------------|
| WEAR            | <b>NORMAL</b> |
| CONTAMINATION   | <b>NORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b> |



Machine Id  
**813086**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA 10W30 (--- GAL)**

**RECOMMENDATION**

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>PC0083800</b>   | PC0081898   | PC0075501   |
| Sample Date    |     | Client Info |           | <b>28 Feb 2024</b> | 15 Nov 2023 | 17 Aug 2023 |
| Machine Age    | kms | Client Info |           | <b>29661</b>       | 23464       | 16620       |
| Oil Age        | kms | Client Info |           | <b>0</b>           | 0           | 0           |
| Filter Age     | kms | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | Changed     | Changed     |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | Changed     | Changed     |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

**WEAR**

Les taux de métaux sont typiques pour la période de rodage d'un nouveau composant.

|          |     |               |      |              |    |    |
|----------|-----|---------------|------|--------------|----|----|
| Iron     | ppm | ASTM D5185(m) | >80  | <b>16</b>    | 19 | 40 |
| Chromium | ppm | ASTM D5185(m) | >5   | <b>&lt;1</b> | <1 | 2  |
| Nickel   | ppm | ASTM D5185(m) | >2   | <b>&lt;1</b> | 0  | 0  |
| Titanium | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | 0  |
| Silver   | ppm | ASTM D5185(m) | >3   | <b>0</b>     | <1 | 0  |
| Aluminum | ppm | ASTM D5185(m) | >30  | <b>4</b>     | 2  | 3  |
| Lead     | ppm | ASTM D5185(m) | >30  | <b>0</b>     | <1 | 0  |
| Copper   | ppm | ASTM D5185(m) | >150 | <b>&lt;1</b> | 1  | 3  |
| Tin      | ppm | ASTM D5185(m) | >5   | <b>0</b>     | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | 0  |

**CONTAMINATION**

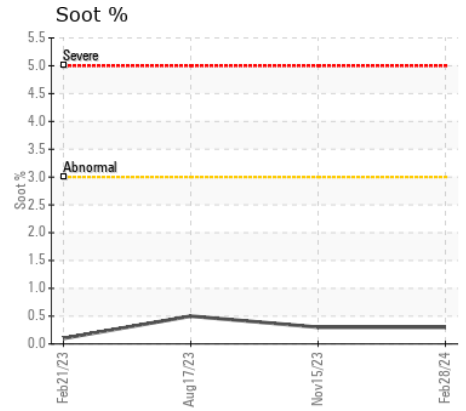
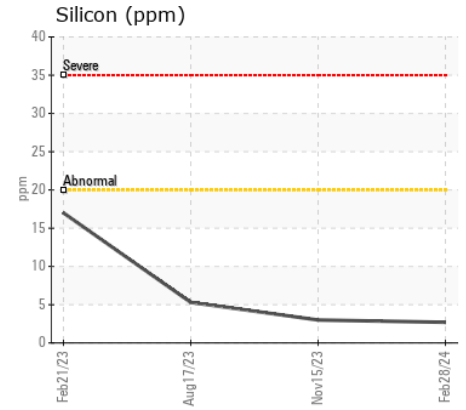
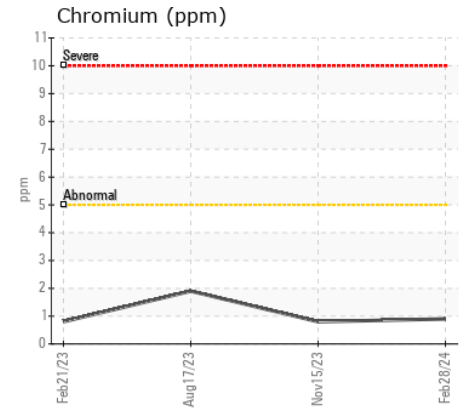
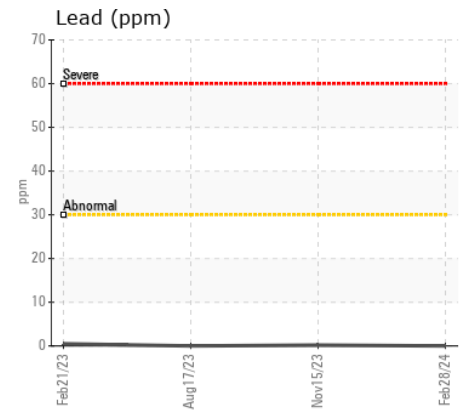
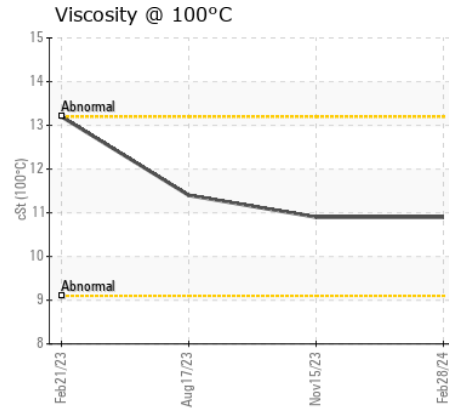
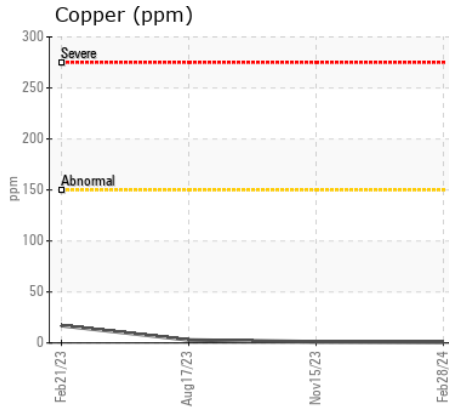
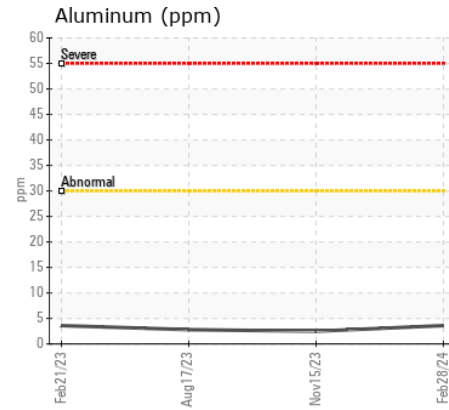
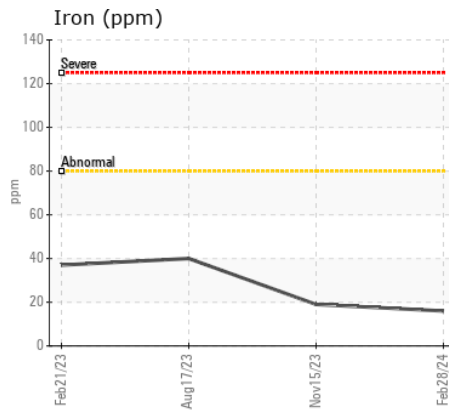
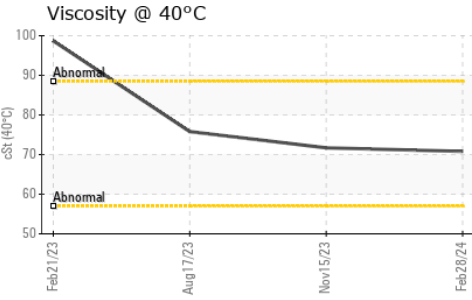
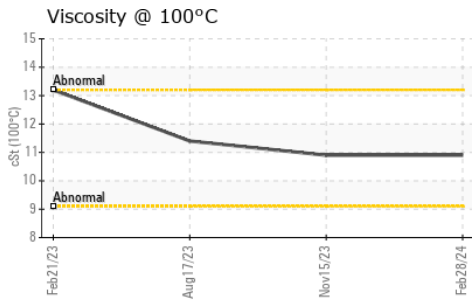
Il n'y a aucun indice de contamination dans l'huile.

|                  |          |               |      |                |      |      |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon          | ppm      | ASTM D5185(m) | >20  | <b>3</b>       | 3    | 5    |
| Potassium        | ppm      | ASTM D5185(m) | >20  | <b>5</b>       | 5    | 2    |
| Fuel             |          | WC Method     | >5   | <b>&lt;1.0</b> | <1.0 | <1.0 |
| Water            |          | WC Method     | >0.2 | <b>NEG</b>     | NEG  | NEG  |
| Glycol           |          | WC Method     |      | <b>NEG</b>     | NEG  | NEG  |
| Soot %           | %        | ASTM D7844*   | >3   | <b>0.3</b>     | 0.3  | 0.5  |
| Nitration        | Abs/cm   | ASTM D7624*   | >20  | <b>7.7</b>     | 8.3  | 8.6  |
| Sulfation        | Abs/.1mm | ASTM D7415*   | >30  | <b>19.3</b>    | 20.0 | 21.2 |
| Emulsified Water | scalar   | Visual*       | >0.2 | <b>NEG</b>     | NEG  | NEG  |

**FLUID CONDITION**

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

|                      |          |               |     |             |      |      |
|----------------------|----------|---------------|-----|-------------|------|------|
| Sodium               | ppm      | ASTM D5185(m) |     | <b>1</b>    | 1    | 2    |
| Boron                | ppm      | ASTM D5185(m) |     | <b>6</b>    | 6    | 8    |
| Barium               | ppm      | ASTM D5185(m) |     | <b>0</b>    | <1   | <1   |
| Molybdenum           | ppm      | ASTM D5185(m) |     | <b>61</b>   | 62   | 60   |
| Manganese            | ppm      | ASTM D5185(m) |     | <b>0</b>    | 0    | 2    |
| Magnesium            | ppm      | ASTM D5185(m) |     | <b>976</b>  | 980  | 964  |
| Calcium              | ppm      | ASTM D5185(m) |     | <b>1107</b> | 1109 | 1162 |
| Phosphorus           | ppm      | ASTM D5185(m) |     | <b>1013</b> | 1007 | 1017 |
| Zinc                 | ppm      | ASTM D5185(m) |     | <b>1203</b> | 1219 | 1200 |
| Sulfur               | ppm      | ASTM D5185(m) |     | <b>2633</b> | 2444 | 2220 |
| Oxidation            | Abs/.1mm | ASTM D7414*   | >25 | <b>15.4</b> | 16.3 | 16.0 |
| Visc @ 40°C          | cSt      | ASTM D7279(m) |     | <b>70.8</b> | 71.7 | 75.8 |
| Visc @ 100°C         | cSt      | ASTM D7279(m) |     | <b>10.9</b> | 10.9 | 11.4 |
| Viscosity Index (VI) | Scale    | ASTM D2270*   |     | <b>143</b>  | 141  | 142  |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0083800  
**Lab Number** : 02620765  
**Unique Number** : 5737875  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )  
**Received** : 08 Mar 2024  
**Tested** : 08 Mar 2024  
**Diagnosed** : 08 Mar 2024 - Wes Davis

**GFL Environmental - 742 - Quebec City Solid Waste**  
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To discuss this sample report, contact Customer Service at 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.