



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

Machine Id  
**4647**  
 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>GFL0110472</b>  | GFL0110433  | GFL0089676  |
| Sample Date    |     | Client Info |           | <b>25 Mar 2024</b> | 12 Jan 2024 | 19 Sep 2023 |
| Machine Age    | hrs | Client Info |           | <b>17841</b>       | 17436       | 16848       |
| Oil Age        | hrs | Client Info |           | <b>600</b>         | 600         | 600         |
| Filter Age     | hrs | Client Info |           | <b>600</b>         | 600         | 600         |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

**WEAR**

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

|              |        |               |      |              |       |     |
|--------------|--------|---------------|------|--------------|-------|-----|
| Iron         | ppm    | ASTM D5185(m) | >100 | <b>16</b>    | 16    | 12  |
| Chromium     | ppm    | ASTM D5185(m) | >20  | <b>&lt;1</b> | <1    | <1  |
| Nickel       | ppm    | ASTM D5185(m) | >4   | <b>&lt;1</b> | <1    | <1  |
| Titanium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0     | 0   |
| Silver       | ppm    | ASTM D5185(m) | >3   | <b>0</b>     | 0     | <1  |
| Aluminum     | ppm    | ASTM D5185(m) | >20  | <b>5</b>     | 8     | 5   |
| Lead         | ppm    | ASTM D5185(m) | >40  | <b>0</b>     | 0     | <1  |
| Copper       | ppm    | ASTM D5185(m) | >330 | <b>2</b>     | 3     | 2   |
| Tin          | ppm    | ASTM D5185(m) | >15  | <b>0</b>     | <1    | <1  |
| Vanadium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0     | 0   |
| White Metal  | scalar | Visual*       | NONE | <b>NONE</b>  | VLITE | --- |
| Yellow Metal | scalar | Visual*       | NONE | <b>NONE</b>  | NONE  | --- |

**CONTAMINATION**

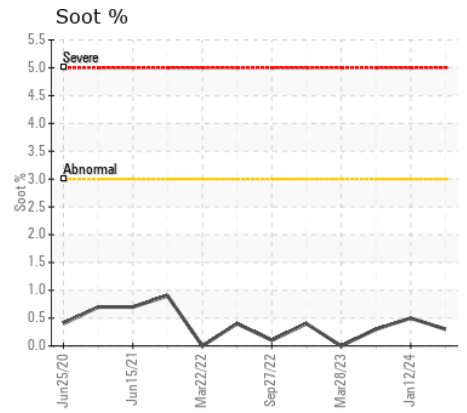
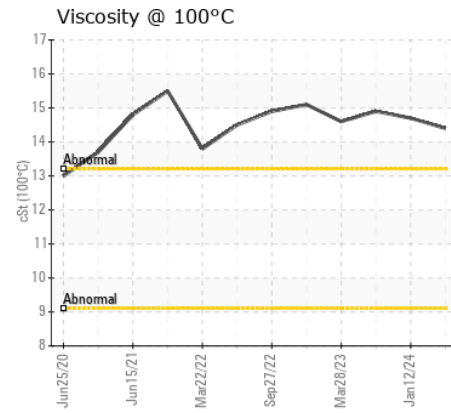
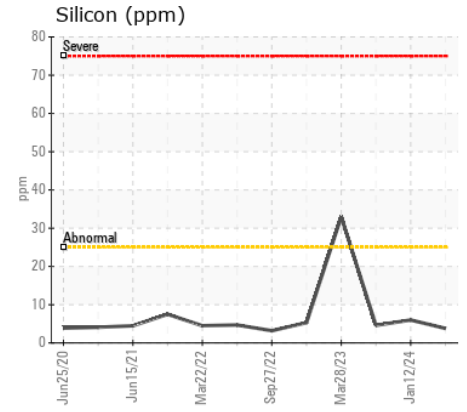
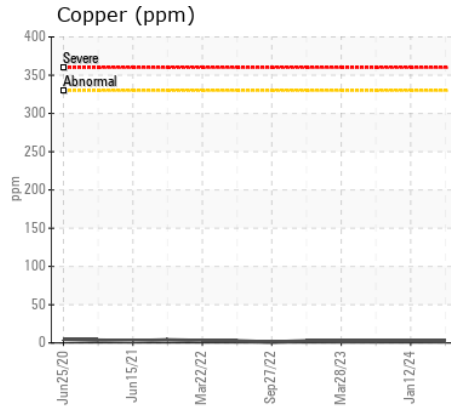
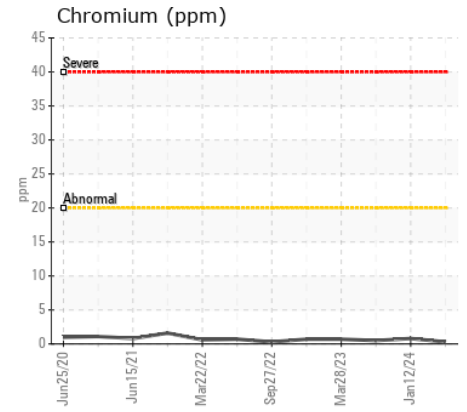
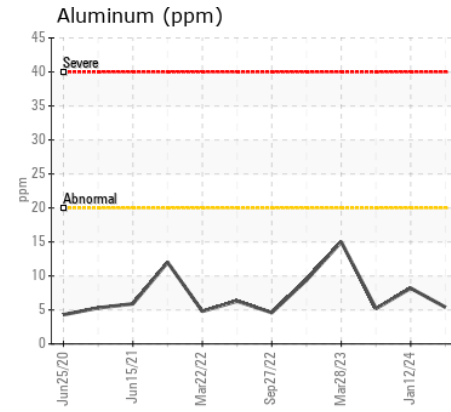
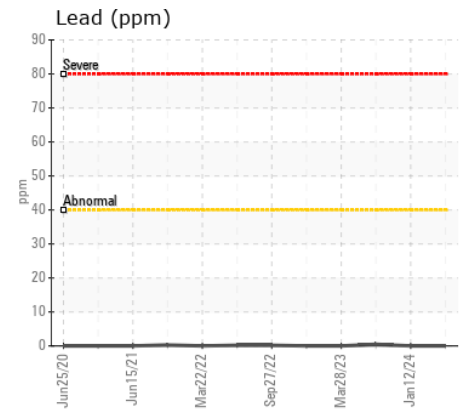
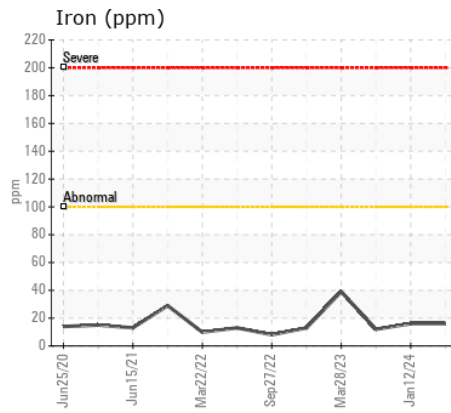
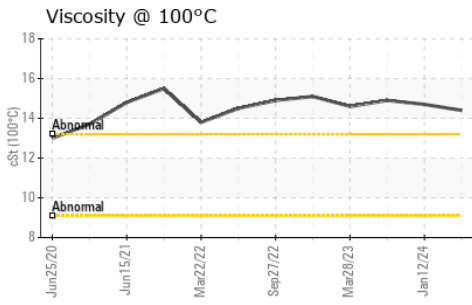
Il n'y a aucun indice de contamination dans l'huile.

|                  |          |               |       |                |       |       |
|------------------|----------|---------------|-------|----------------|-------|-------|
| Silicon          | ppm      | ASTM D5185(m) | >25   | <b>4</b>       | 6     | 5     |
| Potassium        | ppm      | ASTM D5185(m) | >20   | <b>7</b>       | 8     | 7     |
| 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>     | 0.5   | 0.3   |
| Nitration        | Abs/cm   | ASTM D7624*   | >20   | <b>8.4</b>     | 9.3   | 8.2   |
| Sulfation        | Abs/.1mm | ASTM D7415*   | >30   | <b>23.7</b>    | 24.7  | 21.7  |
| Silt             | scalar   | Visual*       | NONE  | <b>NONE</b>    | NONE  | ---   |
| Debris           | scalar   | Visual*       | NONE  | <b>VLITE</b>   | NONE  | ---   |
| Sand/Dirt        | scalar   | Visual*       | NONE  | <b>NONE</b>    | NONE  | ---   |
| Appearance       | scalar   | Visual*       | NORML | <b>NORML</b>   | NORML | ---   |
| Odor             | scalar   | Visual*       | NORML | <b>NORML</b>   | NORML | NORML |
| Emulsified Water | scalar   | Visual*       | >0.2  | <b>NEG</b>     | NEG   | NEG   |

**FLUID CONDITION**

La viscosité de l'échantillon se situe dans la portée de l'SAE 40; nous vous conseillons de vérifier. L'état de l'huile est acceptable pour la durée de service.

|              |          |               |     |             |      |      |
|--------------|----------|---------------|-----|-------------|------|------|
| Sodium       | ppm      | ASTM D5185(m) |     | <b>5</b>    | 4    | 4    |
| Boron        | ppm      | ASTM D5185(m) |     | <b>94</b>   | 61   | 92   |
| Barium       | ppm      | ASTM D5185(m) |     | <b>0</b>    | 0    | <1   |
| Molybdenum   | ppm      | ASTM D5185(m) |     | <b>3</b>    | 4    | 7    |
| Manganese    | ppm      | ASTM D5185(m) |     | <b>0</b>    | 0    | 0    |
| Magnesium    | ppm      | ASTM D5185(m) |     | <b>29</b>   | 44   | 41   |
| Calcium      | ppm      | ASTM D5185(m) |     | <b>2091</b> | 2168 | 2210 |
| Phosphorus   | ppm      | ASTM D5185(m) |     | <b>940</b>  | 946  | 981  |
| Zinc         | ppm      | ASTM D5185(m) |     | <b>1074</b> | 1138 | 1192 |
| Sulfur       | ppm      | ASTM D5185(m) |     | <b>3579</b> | 3013 | 2895 |
| Oxidation    | Abs/.1mm | ASTM D7414*   | >25 | <b>18.5</b> | 19.6 | 16.7 |
| Visc @ 100°C | cSt      | ASTM D7279(m) |     | <b>14.4</b> | 14.7 | 14.9 |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0110472  
**Lab Number** : 02625547  
**Unique Number** : 5750666  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**Received** : 01 Apr 2024  
**Tested** : 01 Apr 2024  
**Diagnosed** : 01 Apr 2024 - Kevin Marson  
**GFL Environmental - 732 - Beauce - Hauling - Solid Waste**  
 139, 181 Street,  
 Beauceville, QC  
 CA G5X 2S9  
 Contact: Denis Bedard

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.

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