



Machine Id  
**OR706**  
Component  
**Diesel Engine**  
Fluid  
**SAE 0W40 (--- 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>GFL0119759</b>  | GFL0114845  | GFL0114902  |
| Sample Date    |     | Client Info |           | <b>10 Jun 2024</b> | 03 May 2024 | 26 Feb 2024 |
| Machine Age    | hrs | Client Info |           | <b>13992</b>       | 13608       | 13525       |
| 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>     | Not Changd  | Changed     |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | Not Changd  | Changed     |
| Sample Status  |     |             |           | <b>NORMAL</b>      | MARGINAL    | NORMAL      |

### WEAR

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

|          |     |               |      |              |    |    |
|----------|-----|---------------|------|--------------|----|----|
| Iron     | ppm | ASTM D5185(m) | >100 | <b>3</b>     | 2  | 2  |
| Chromium | ppm | ASTM D5185(m) | >20  | <b>0</b>     | 0  | 0  |
| Nickel   | ppm | ASTM D5185(m) | >4   | <b>0</b>     | 0  | 0  |
| Titanium | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | 0  |
| Silver   | ppm | ASTM D5185(m) | >3   | <b>0</b>     | 0  | 0  |
| Aluminum | ppm | ASTM D5185(m) | >20  | <b>1</b>     | 1  | 1  |
| Lead     | ppm | ASTM D5185(m) | >40  | <b>0</b>     | 0  | <1 |
| Copper   | ppm | ASTM D5185(m) | >330 | <b>&lt;1</b> | <1 | <1 |
| Tin      | ppm | ASTM D5185(m) | >15  | <b>0</b>     | 0  | 0  |
| Vanadium | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | 0  |

### CONTAMINATION

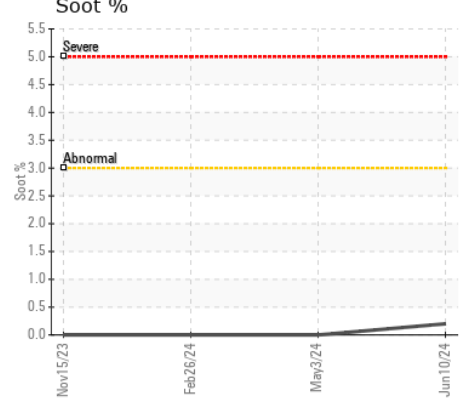
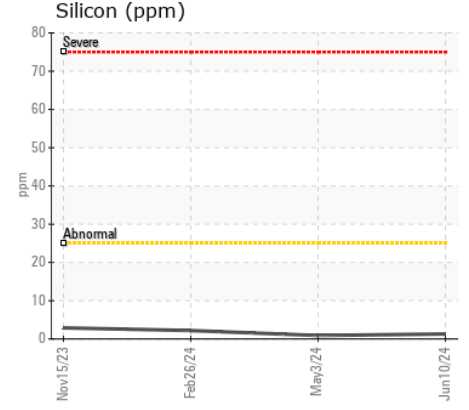
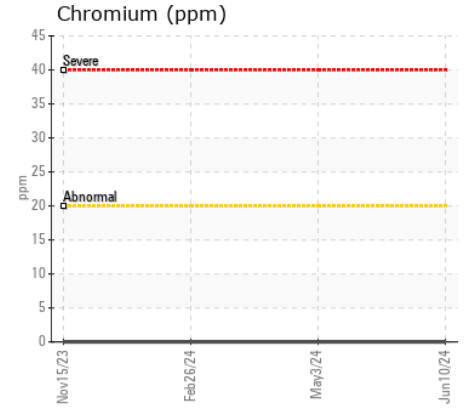
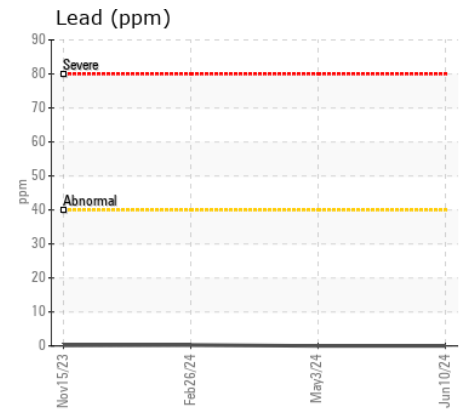
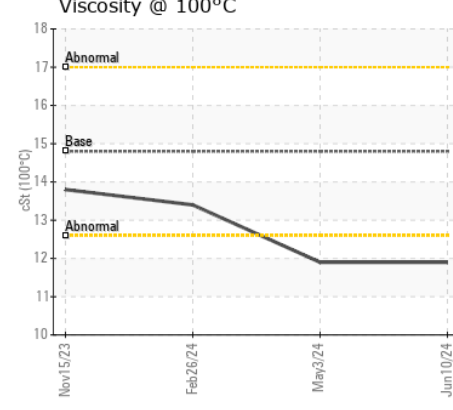
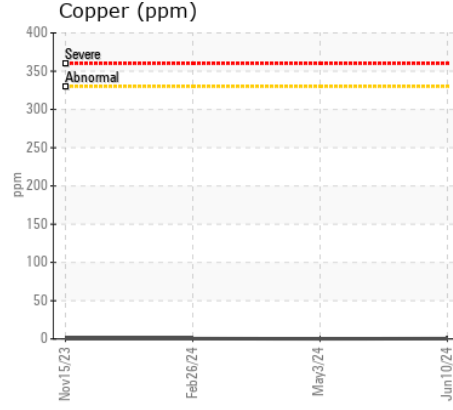
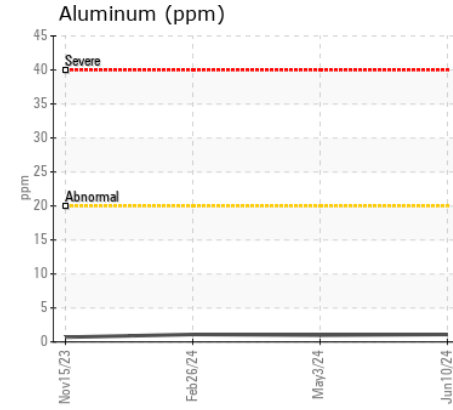
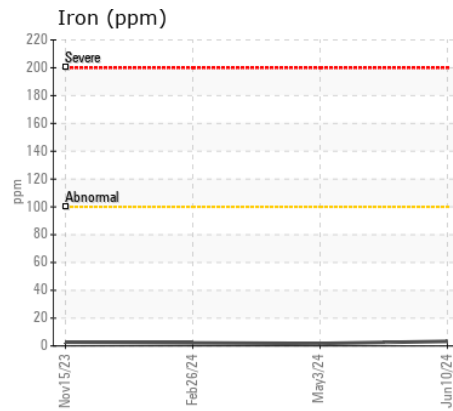
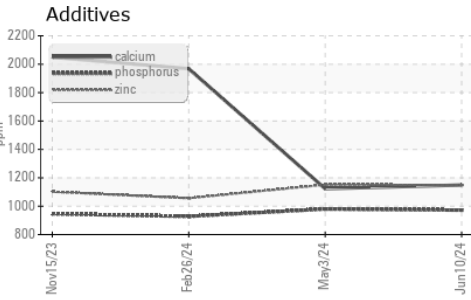
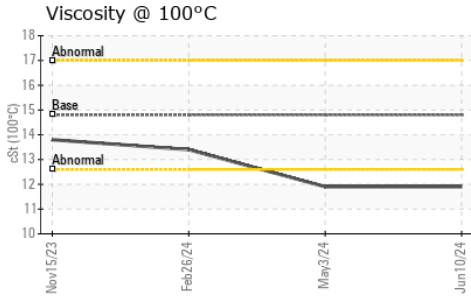
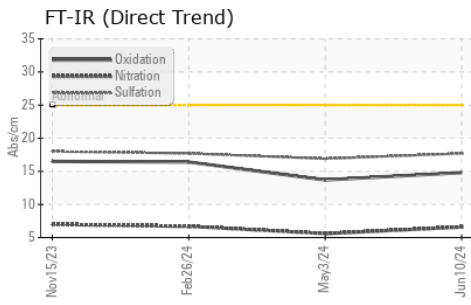
Il n'y a aucun indice de contamination dans l'huile.

|                  |          |               |      |                |       |      |
|------------------|----------|---------------|------|----------------|-------|------|
| Silicon          | ppm      | ASTM D5185(m) | >25  | <b>1</b>       | <1    | 2    |
| Potassium        | ppm      | ASTM D5185(m) | >20  | <b>&lt;1</b>   | <1    | 8    |
| Fuel             |          | WC Method     | >5   | <b>&lt;1.0</b> | ▲ 3.2 | <1.0 |
| Water            |          | WC Method     | >0.2 | <b>NEG</b>     | NEG   | NEG  |
| Glycol           |          | WC Method     |      | <b>NEG</b>     | NEG   | 0.0  |
| Soot %           | %        | ASTM D7844*   | >3   | <b>0.2</b>     | 0     | 0    |
| Nitration        | Abs/cm   | ASTM D7624*   | >20  | <b>6.6</b>     | 5.6   | 6.7  |
| Sulfation        | Abs/.1mm | ASTM D7415*   | >30  | <b>17.7</b>    | 16.9  | 17.7 |
| 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>4</b>     | 4    | 34   |
| Barium       | ppm      | ASTM D5185(m) |      | <b>&lt;1</b> | 0    | 0    |
| Molybdenum   | ppm      | ASTM D5185(m) |      | <b>52</b>    | 52   | <1   |
| Manganese    | ppm      | ASTM D5185(m) |      | <b>0</b>     | 0    | 0    |
| Magnesium    | ppm      | ASTM D5185(m) |      | <b>855</b>   | 850  | 21   |
| Calcium      | ppm      | ASTM D5185(m) |      | <b>1149</b>  | 1123 | 1968 |
| Phosphorus   | ppm      | ASTM D5185(m) |      | <b>972</b>   | 980  | 928  |
| Zinc         | ppm      | ASTM D5185(m) |      | <b>1149</b>  | 1151 | 1056 |
| Sulfur       | ppm      | ASTM D5185(m) |      | <b>2542</b>  | 2589 | 3435 |
| Oxidation    | Abs/.1mm | ASTM D7414*   | >25  | <b>14.8</b>  | 13.7 | 16.4 |
| Visc @ 100°C | cSt      | ASTM D7279(m) | 14.8 | <b>11.9</b>  | 11.9 | 13.4 |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0119759  
**Lab Number** : 02641349  
**Unique Number** : 5798888  
**Test Package** : MOB 1

**GFL Environmental - 780 - GMA - ICI - Solid Waste**  
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 Laval, QC  
 CA H7P 4J3  
 Contact: Louis Michaud  
 louis.michaud@gflenv.com

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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F: