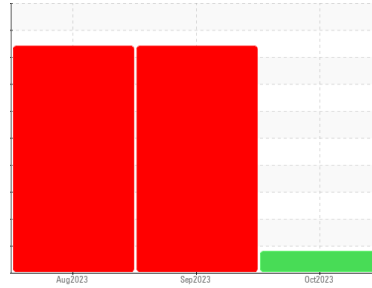




# OIL ANALYSIS REPORT

## Sample Rating Trend



**WEAR**



Machine Id  
**919005**  
Component  
**Transmission (Auto)**  
Fluid  
**DEXRON III (--- GAL)**

## DIAGNOSIS

### Recommendation

Nous vous recommandons de vidanger le fluide 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.

### Wear

Il y a indication d'usure du convertisseur de couple.

### Contamination

Légère dilution de carburant dans le fluide. Aucun autre contaminant n'a été détecté dans le fluide.

### Fluid Condition

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

## SAMPLE INFORMATION

| method        | limit/base      | current            | history1    | history2    |
|---------------|-----------------|--------------------|-------------|-------------|
| Sample Number | Client Info     | <b>GFL0096379</b>  | GFL0087575  | GFL0061577  |
| Sample Date   | Client Info     | <b>23 Oct 2023</b> | 28 Sep 2023 | 16 Aug 2023 |
| Machine Age   | kms Client Info | <b>221614</b>      | 216455      | 210048      |
| Oil Age       | kms Client Info | <b>0</b>           | 0           | 0           |
| Oil Changed   | Client Info     | <b>Not Chngd</b>   | Changed     | N/A         |
| Sample Status |                 | <b>ABNORMAL</b>    | SEVERE      | SEVERE      |

## WEAR METALS

| method                      | limit/base | current      | history1 | history2 |
|-----------------------------|------------|--------------|----------|----------|
| Iron ppm ASTM D5185(m)      | >230       | <b>58</b>    | 166      | 169      |
| Chromium ppm ASTM D5185(m)  | >2         | <b>0</b>     | <1       | <1       |
| Nickel ppm ASTM D5185(m)    | >5         | <b>0</b>     | <1       | <1       |
| Titanium ppm ASTM D5185(m)  | >2         | <b>0</b>     | 0        | <1       |
| Silver ppm ASTM D5185(m)    | >5         | <b>&lt;1</b> | <1       | 0        |
| Aluminum ppm ASTM D5185(m)  | >65        | <b>▲ 77</b>  | ● 223    | ● 220    |
| Lead ppm ASTM D5185(m)      | >55        | <b>14</b>    | 45       | 44       |
| Copper ppm ASTM D5185(m)    | >85        | <b>17</b>    | 47       | 47       |
| Tin ppm ASTM D5185(m)       | >5         | <b>2</b>     | ▲ 7      | ▲ 7      |
| Antimony ppm ASTM D5185(m)  |            | <b>0</b>     | 0        | 0        |
| Vanadium ppm ASTM D5185(m)  |            | <b>0</b>     | 0        | 0        |
| Beryllium ppm ASTM D5185(m) |            | <b>0</b>     | 0        | 0        |
| Cadmium ppm ASTM D5185(m)   |            | <b>0</b>     | 0        | 0        |

## ADDITIVES

| method                       | limit/base | current      | history1 | history2 |
|------------------------------|------------|--------------|----------|----------|
| Boron ppm ASTM D5185(m)      |            | <b>68</b>    | 74       | 82       |
| Barium ppm ASTM D5185(m)     |            | <b>&lt;1</b> | <1       | <1       |
| Molybdenum ppm ASTM D5185(m) |            | <b>0</b>     | 0        | <1       |
| Manganese ppm ASTM D5185(m)  |            | <b>&lt;1</b> | 2        | 3        |
| Magnesium ppm ASTM D5185(m)  |            | <b>3</b>     | 2        | 1        |
| Calcium ppm ASTM D5185(m)    |            | <b>103</b>   | 61       | 52       |
| Phosphorus ppm ASTM D5185(m) |            | <b>215</b>   | 261      | 264      |
| Zinc ppm ASTM D5185(m)       |            | <b>8</b>     | 13       | 12       |
| Sulfur ppm ASTM D5185(m)     |            | <b>1225</b>  | 746      | 966      |
| Lithium ppm ASTM D5185(m)    |            | <b>&lt;1</b> | <1       | <1       |

## CONTAMINANTS

| method                      | limit/base | current    | history1 | history2 |
|-----------------------------|------------|------------|----------|----------|
| Silicon ppm ASTM D5185(m)   | >20        | <b>12</b>  | ▲ 28     | ▲ 28     |
| Sodium ppm ASTM D5185(m)    |            | <b>6</b>   | 17       | 18       |
| Potassium ppm ASTM D5185(m) | >20        | <b>2</b>   | 4        | 6        |
| Fuel % ASTM D7593*          |            | <b>1.6</b> | ---      | ---      |

## INFRA-RED

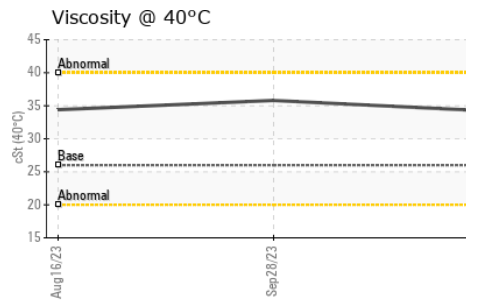
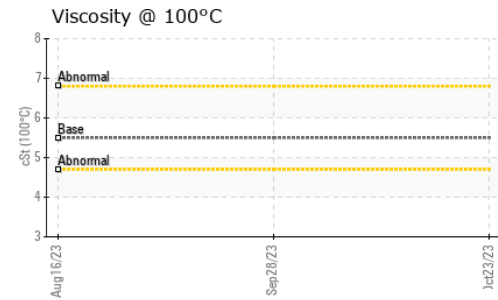
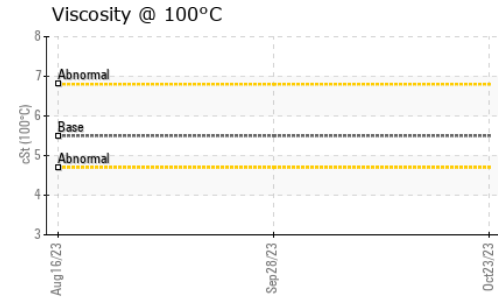
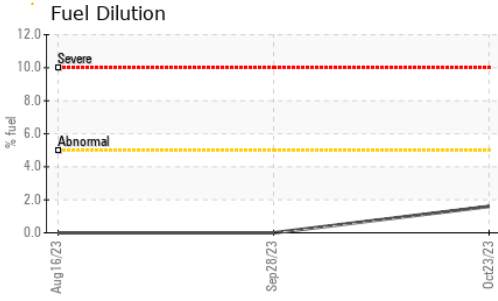
| method                         | limit/base | current     | history1 | history2 |
|--------------------------------|------------|-------------|----------|----------|
| Soot % ASTM D7844*             |            | <b>0</b>    | ---      | ---      |
| Nitration Abs/cm ASTM D7624*   |            | <b>4.9</b>  | ---      | ---      |
| Sulfation Abs/.1mm ASTM D7415* |            | <b>37.2</b> | ---      | ---      |

## FLUID DEGRADATION

| method                         | limit/base | current     | history1 | history2 |
|--------------------------------|------------|-------------|----------|----------|
| Oxidation Abs/.1mm ASTM D7414* |            | <b>50.2</b> | ---      | ---      |



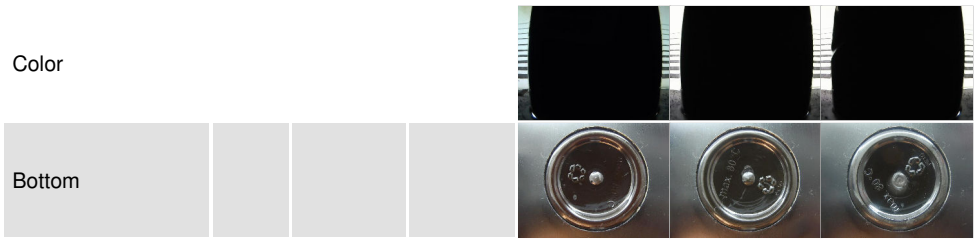
# OIL ANALYSIS REPORT



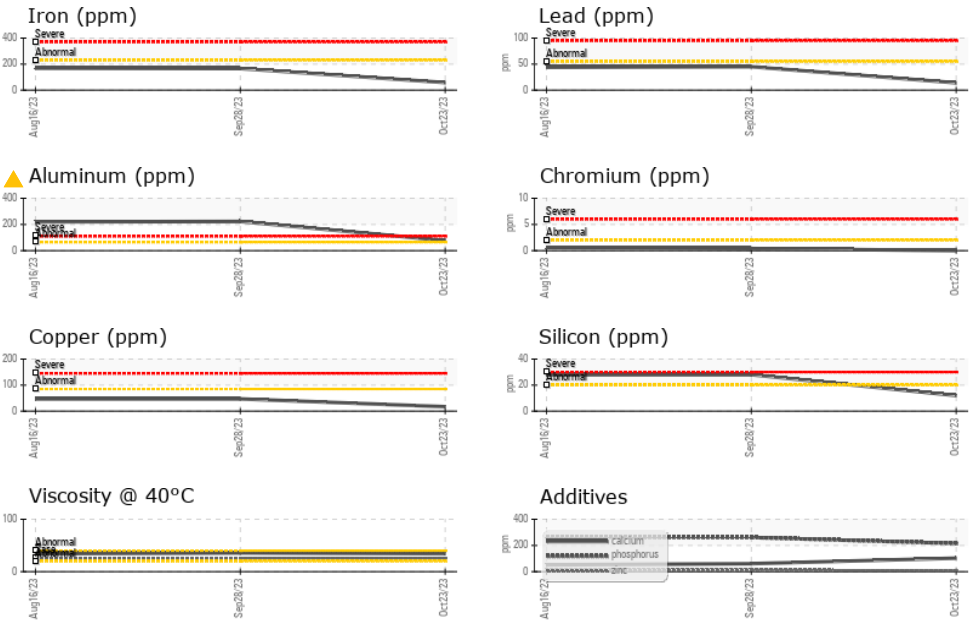
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | Visual*    | NONE    | NONE     | VLITE    |
| Yellow Metal     | scalar | Visual*    | NONE    | NONE     | NONE     |
| Precipitate      | scalar | Visual*    | NONE    | NONE     | NONE     |
| Silt             | scalar | Visual*    | NONE    | NONE     | NONE     |
| Debris           | scalar | Visual*    | NONE    | NONE     | NONE     |
| Sand/Dirt        | scalar | Visual*    | NONE    | NONE     | NONE     |
| Appearance       | scalar | Visual*    | NORML   | NORML    | NORML    |
| Odor             | scalar | Visual*    | NORML   | NORML    | NORML    |
| Emulsified Water | scalar | Visual*    | >0.1    | NEG      | NEG      |
| Free Water       | scalar | Visual*    |         | NEG      | NEG      |

| FLUID PROPERTIES     | method | limit/base    | current | history1 | history2 |
|----------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C          | cSt    | ASTM D7279(m) | 26.0    | 34.2     | 35.8     |
| Visc @ 100°C         | cSt    | ASTM D7279(m) | 5.5     | 6.8      | ---      |
| Viscosity Index (VI) | Scale  | ASTM D2270*   | 155     | 161      | ---      |

## SAMPLE IMAGES



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 747 - GMA - Solid Waste  
**Sample No.** : GFL0096379 **Received** : 27 Oct 2023  
**Lab Number** : 02592333 **Diagnosed** : 30 Oct 2023  
**Unique Number** : 5669412 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: FT-IR, FuelDilution, KV100, PercentFuel, VI )

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.

Contact: Steve Voyer  
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