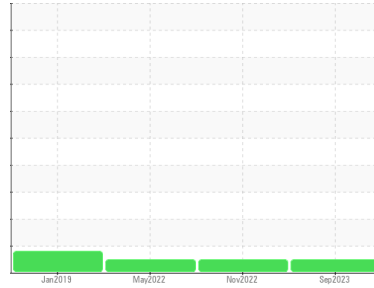




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**9951**  
 Component  
**Transmission (Auto)**  
 Fluid  
**BP AUTRAN SYN 295 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the fluid.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1    | history2    |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info |             | <b>GFL0091634</b>  | GFL0060212  | GFL0052662  |
| Sample Date   | Client Info |             | <b>26 Sep 2023</b> | 10 Nov 2022 | 11 May 2022 |
| Machine Age   | kms         | Client Info | <b>496017</b>      | 24456       | 1370        |
| Oil Age       | kms         | Client Info | <b>0</b>           | 1064        | 0           |
| Oil Changed   | Client Info |             | <b>Changed</b>     | Changed     | N/A         |
| Sample Status |             |             | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## WEAR METALS

|           | method | limit/base    | current | history1     | history2 |    |
|-----------|--------|---------------|---------|--------------|----------|----|
| Iron      | ppm    | ASTM D5185(m) | >300    | <b>73</b>    | 55       | 46 |
| Chromium  | ppm    | ASTM D5185(m) | >2      | <b>0</b>     | 0        | 0  |
| Nickel    | ppm    | ASTM D5185(m) | >4      | <b>&lt;1</b> | <1       | <1 |
| Titanium  | ppm    | ASTM D5185(m) | >3      | <b>0</b>     | 0        | 0  |
| Silver    | ppm    | ASTM D5185(m) | >5      | <b>&lt;1</b> | 0        | 0  |
| Aluminum  | ppm    | ASTM D5185(m) | >70     | <b>41</b>    | 32       | 24 |
| Lead      | ppm    | ASTM D5185(m) | >85     | <b>27</b>    | 27       | 28 |
| Copper    | ppm    | ASTM D5185(m) | >90     | <b>34</b>    | 25       | 18 |
| Tin       | ppm    | ASTM D5185(m) | >10     | <b>6</b>     | 5        | 4  |
| Antimony  | ppm    | ASTM D5185(m) | >5      | <b>0</b>     | 0        | <1 |
| 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>73</b>    | 76       | 84  |
| Barium     | ppm    | ASTM D5185(m) |         | <b>&lt;1</b> | 0        | 0   |
| Molybdenum | ppm    | ASTM D5185(m) |         | <b>0</b>     | <1       | <1  |
| Manganese  | ppm    | ASTM D5185(m) |         | <b>&lt;1</b> | <1       | <1  |
| Magnesium  | ppm    | ASTM D5185(m) |         | <b>&lt;1</b> | <1       | <1  |
| Calcium    | ppm    | ASTM D5185(m) |         | <b>98</b>    | 91       | 90  |
| Phosphorus | ppm    | ASTM D5185(m) |         | <b>224</b>   | 235      | 232 |
| Zinc       | ppm    | ASTM D5185(m) |         | <b>6</b>     | 5        | 5   |
| Sulfur     | ppm    | ASTM D5185(m) |         | <b>1124</b>  | 1009     | 977 |
| Lithium    | ppm    | ASTM D5185(m) |         | <b>&lt;1</b> | <1       | <1  |

## CONTAMINANTS

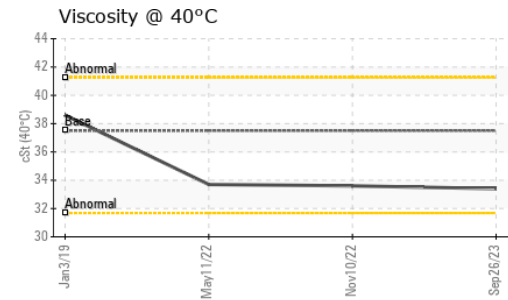
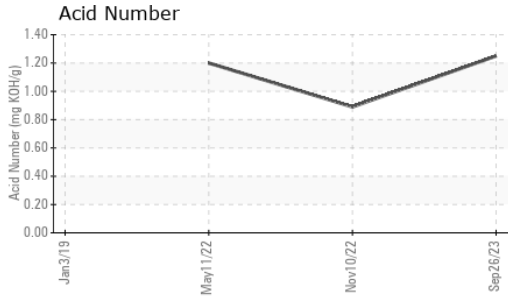
|           | method | limit/base    | current | history1 | history2 |   |
|-----------|--------|---------------|---------|----------|----------|---|
| Silicon   | ppm    | ASTM D5185(m) | >20     | <b>7</b> | 6        | 7 |
| Sodium    | ppm    | ASTM D5185(m) |         | <b>8</b> | 6        | 5 |
| Potassium | ppm    | ASTM D5185(m) | >20     | <b>2</b> | 2        | 3 |

## FLUID DEGRADATION

|                  | method   | limit/base | current | history1    | history2 |      |
|------------------|----------|------------|---------|-------------|----------|------|
| Acid Number (AN) | mg KOH/g | ASTM D974* |         | <b>1.25</b> | 0.89     | 1.20 |



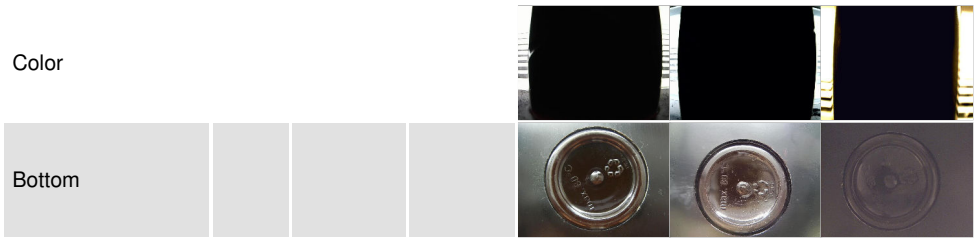
# OIL ANALYSIS REPORT



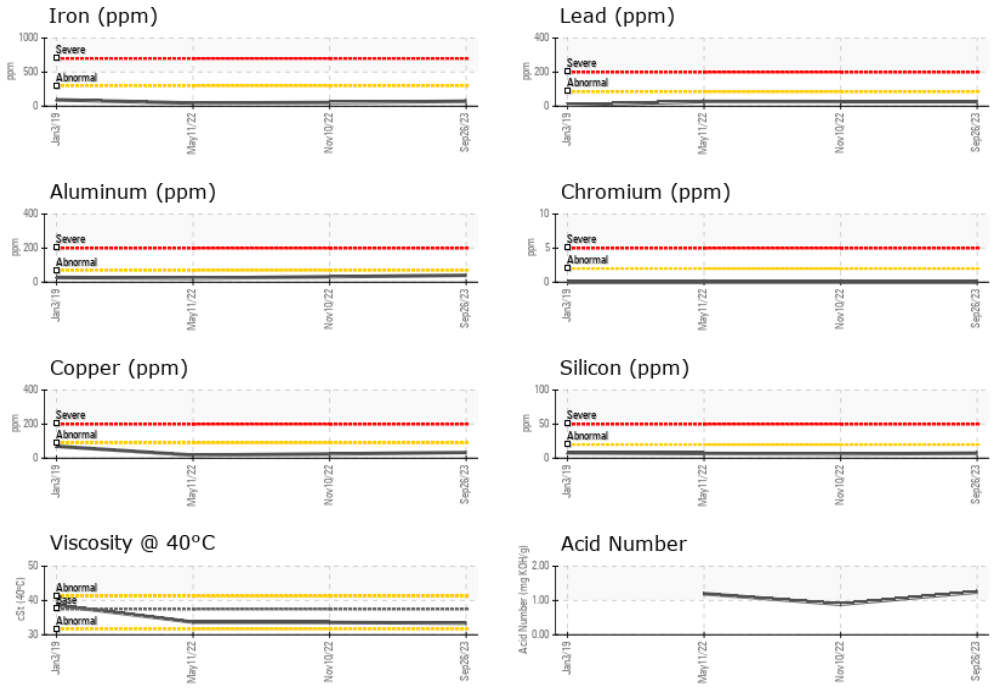
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | Visual*    | NONE    | NONE     | VLITE    |
| Yellow Metal     | scalar | Visual*    | NONE    | NONE     | NONE     |
| Precipitate      | scalar | Visual*    | NONE    | NONE     | NONE     |
| Silt             | scalar | Visual*    | NONE    | NONE     | VLITE    |
| Debris           | scalar | Visual*    | NONE    | NONE     | VLITE    |
| 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) | 37.5    | <b>33.4</b> | 33.6     |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County  
**Sample No.** : GFL0091634 **Received** : 05 Oct 2023  
**Lab Number** : **02587212** **Diagnosed** : 05 Oct 2023  
**Unique Number** : 5656278 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: TAN Man )

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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