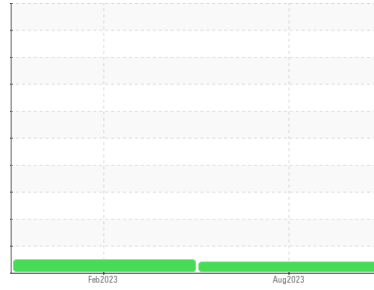




# PROBLEM SUMMARY

Sample Rating Trend



**VIS DEBRIS**



Machine Id  
**422028-402313**

Component  
**Transmission (Auto)**

Fluid  
**PETRO CANADA DuraDrive HD Synthetic 668 (--- GAL)**

## COMPONENT CONDITION SUMMARY

No relevant graphs to display

## RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

| Sample Status |        |         |      | ABNORMAL | NORMAL | --- |
|---------------|--------|---------|------|----------|--------|-----|
| Debris        | scalar | *Visual | NONE | ▲ MODER  | NONE   | --- |

**Customer Id:** GFL836  
**Sample No.:** GFL0087146  
**Lab Number:** 05928534  
**Test Package:** FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

**27 Feb 2023 Diag: Angela Borella**

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report





# OIL ANALYSIS REPORT

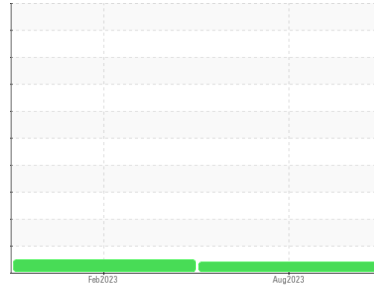
Sample Rating Trend

VIS DEBRIS

Machine Id  
**422028-402313**

Component  
**Transmission (Auto)**

Fluid  
**PETRO CANADA DuraDrive HD Synthetic 668 (--- GAL)**



## DIAGNOSIS

### Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Moderate concentration of visible dirt/debris present in the fluid.

### Fluid Condition

The condition of the fluid is acceptable for the time in service.

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1    | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|----------|
| Sample Number      | Client Info |             |            | <b>GFL0087146</b>  | GFL0070320  | ---      |
| Sample Date        | Client Info |             |            | <b>12 Aug 2023</b> | 27 Feb 2023 | ---      |
| Machine Age        | hrs         | Client Info |            | <b>25662</b>       | 25047       | ---      |
| Oil Age            | hrs         | Client Info |            | <b>25662</b>       | 1200        | ---      |
| Oil Changed        | Client Info |             |            | <b>Not Chngd</b>   | Not Chngd   | ---      |
| Sample Status      |             |             |            | <b>ABNORMAL</b>    | NORMAL      | ---      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >160       | <b>81</b>    | 129      | ---      |
| Chromium    | ppm | ASTM D5185m | >5         | <b>&lt;1</b> | <1       | ---      |
| Nickel      | ppm | ASTM D5185m | >5         | <b>0</b>     | 0        | ---      |
| Titanium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | <1       | ---      |
| Silver      | ppm | ASTM D5185m | >5         | <b>0</b>     | <1       | ---      |
| Aluminum    | ppm | ASTM D5185m | >50        | <b>18</b>    | 28       | ---      |
| Lead        | ppm | ASTM D5185m | >50        | <b>5</b>     | 9        | ---      |
| Copper      | ppm | ASTM D5185m | >225       | <b>8</b>     | 11       | ---      |
| Tin         | ppm | ASTM D5185m | >10        | <b>1</b>     | 2        | ---      |
| Vanadium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | ---      |
| Cadmium     | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |

| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | <b>90</b>    | 83       | ---      |
| Barium     | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Molybdenum | ppm | ASTM D5185m |            | <b>&lt;1</b> | <1       | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>1</b>     | 1        | ---      |
| Magnesium  | ppm | ASTM D5185m |            | <b>2</b>     | 2        | ---      |
| Calcium    | ppm | ASTM D5185m |            | <b>121</b>   | 92       | ---      |
| Phosphorus | ppm | ASTM D5185m |            | <b>241</b>   | 253      | ---      |
| Zinc       | ppm | ASTM D5185m |            | <b>12</b>    | 31       | ---      |
| Sulfur     | ppm | ASTM D5185m |            | <b>1616</b>  | 1281     | ---      |

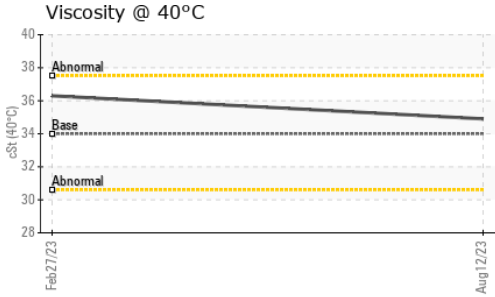
| CONTAMINANTS |     | method      | limit/base | current  | history1 | history2 |
|--------------|-----|-------------|------------|----------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >20        | <b>8</b> | 6        | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>8</b> | 9        | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>6</b> | 10       | ---      |

| VISUAL           |        | method  | limit/base | current        | history1 | history2 |
|------------------|--------|---------|------------|----------------|----------|----------|
| White Metal      | scalar | *Visual | NONE       | <b>NONE</b>    | NONE     | ---      |
| Yellow Metal     | scalar | *Visual | NONE       | <b>NONE</b>    | NONE     | ---      |
| Precipitate      | scalar | *Visual | NONE       | <b>NONE</b>    | NONE     | ---      |
| Silt             | scalar | *Visual | NONE       | <b>NONE</b>    | NONE     | ---      |
| Debris           | scalar | *Visual | NONE       | <b>▲ MODER</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    | ---      |
| Emulsified Water | scalar | *Visual | >0.1       | <b>NEG</b>     | NEG      | ---      |
| Free Water       | scalar | *Visual |            | <b>NEG</b>     | NEG      | ---      |

| FLUID PROPERTIES |     | method    | limit/base | current     | history1 | history2 |
|------------------|-----|-----------|------------|-------------|----------|----------|
| Visc @ 40°C      | cSt | ASTM D445 | 34         | <b>34.9</b> | 36.3     | ---      |

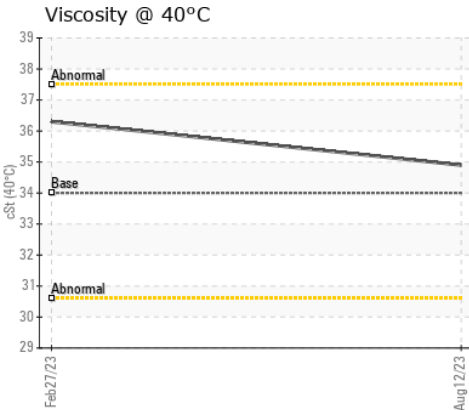
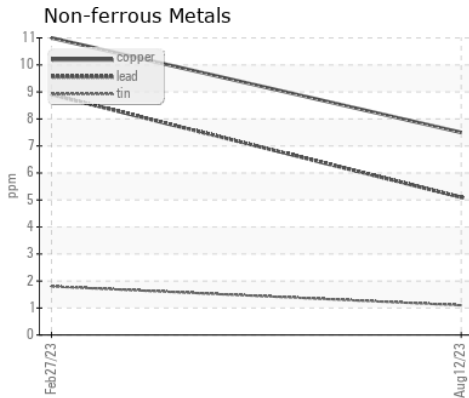
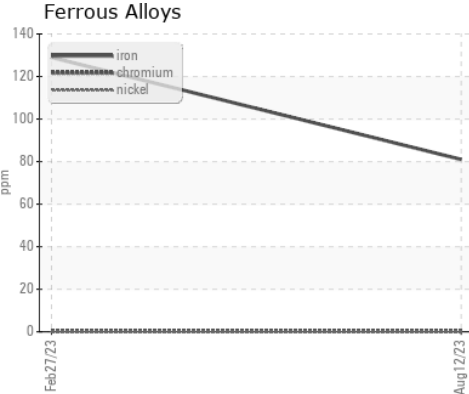


# OIL ANALYSIS REPORT



| SAMPLE IMAGES | method | limit/base | current  | history1 | history2 |
|---------------|--------|------------|----------|----------|----------|
| Color         |        |            | no image | no image | no image |
| Bottom        |        |            | no image | no image | no image |

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0087146 **Received** : 18 Aug 2023  
**Lab Number** : 05928534 **Diagnosed** : 21 Aug 2023  
**Unique Number** : 10608481 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**GFL Environmental - 836 - Kansas City Hauling**  
 7801 East Truman Road  
 Kansas City, MO  
 US 64126  
 Contact: Robert Hart  
 rhart@gflenv.com  
 T: (580)461-1509  
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)