



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**723033-303003**  
 Component  
**Transmission (Auto)**  
 Fluid  
**PETRO CANADA DuraDrive HD Synthetic 668 (--- 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 condition of the fluid is acceptable for the time in service.

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info |             | <b>GFL0102465</b>  | ---      | ---      |
| Sample Date   | Client Info |             | <b>08 Jan 2024</b> | ---      | ---      |
| Machine Age   | hrs         | Client Info | <b>21063</b>       | ---      | ---      |
| Oil Age       | hrs         | Client Info | <b>0</b>           | ---      | ---      |
| Oil Changed   | Client Info |             | <b>Not Chngd</b>   | ---      | ---      |
| Sample Status |             |             | <b>NORMAL</b>      | ---      | ---      |

## CONTAMINATION

|       | method    | limit/base | current    | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.1       | <b>NEG</b> | ---      | ---      |

## WEAR METALS

|          | method | limit/base       | current   | history1 | history2 |
|----------|--------|------------------|-----------|----------|----------|
| Iron     | ppm    | ASTM D5185m >160 | <b>41</b> | ---      | ---      |
| Chromium | ppm    | ASTM D5185m >5   | <b>0</b>  | ---      | ---      |
| Nickel   | ppm    | ASTM D5185m >5   | <b>0</b>  | ---      | ---      |
| Titanium | ppm    | ASTM D5185m      | <b>0</b>  | ---      | ---      |
| Silver   | ppm    | ASTM D5185m >5   | <b>0</b>  | ---      | ---      |
| Aluminum | ppm    | ASTM D5185m >50  | <b>14</b> | ---      | ---      |
| Lead     | ppm    | ASTM D5185m >50  | <b>2</b>  | ---      | ---      |
| Copper   | ppm    | ASTM D5185m >225 | <b>14</b> | ---      | ---      |
| Tin      | ppm    | ASTM D5185m >10  | <b>1</b>  | ---      | ---      |
| Vanadium | ppm    | ASTM D5185m      | <b>0</b>  | ---      | ---      |
| Cadmium  | ppm    | ASTM D5185m      | <b>0</b>  | ---      | ---      |

## ADDITIVES

|            | method | limit/base  | current      | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m | <b>69</b>    | ---      | ---      |
| Barium     | ppm    | ASTM D5185m | <b>0</b>     | ---      | ---      |
| Molybdenum | ppm    | ASTM D5185m | <b>0</b>     | ---      | ---      |
| Manganese  | ppm    | ASTM D5185m | <b>&lt;1</b> | ---      | ---      |
| Magnesium  | ppm    | ASTM D5185m | <b>2</b>     | ---      | ---      |
| Calcium    | ppm    | ASTM D5185m | <b>124</b>   | ---      | ---      |
| Phosphorus | ppm    | ASTM D5185m | <b>234</b>   | ---      | ---      |
| Zinc       | ppm    | ASTM D5185m | <b>0</b>     | ---      | ---      |
| Sulfur     | ppm    | ASTM D5185m | <b>1627</b>  | ---      | ---      |

## CONTAMINANTS

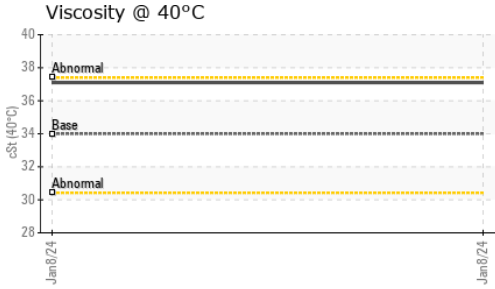
|           | method | limit/base      | current  | history1 | history2 |
|-----------|--------|-----------------|----------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >20 | <b>6</b> | ---      | ---      |
| Sodium    | ppm    | ASTM D5185m     | <b>7</b> | ---      | ---      |
| Potassium | ppm    | ASTM D5185m >20 | <b>3</b> | ---      | ---      |

## VISUAL

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



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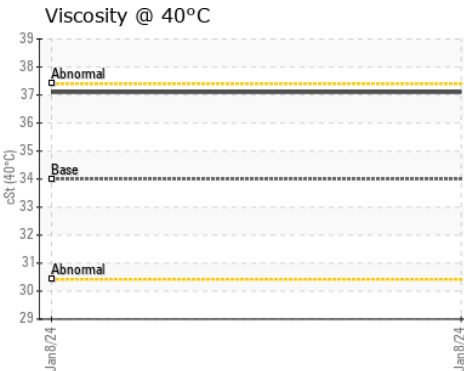
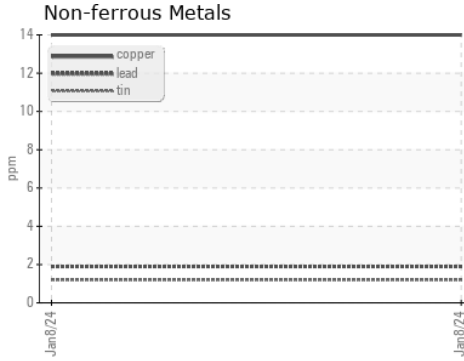
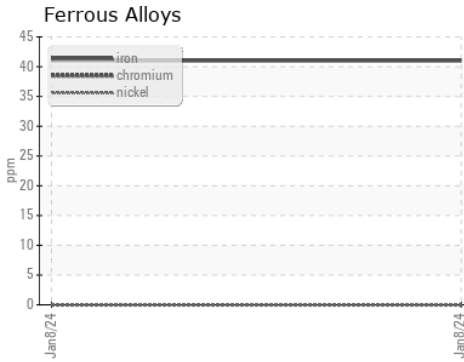
### FLUID PROPERTIES

| method      | limit/base    | current | history1    | history2 |
|-------------|---------------|---------|-------------|----------|
| Visc @ 40°C | cSt ASTM D445 | 34      | <b>37.1</b> | ---      |

### SAMPLE IMAGES

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

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0102465 **Received** : 18 Jan 2024  
**Lab Number** : **06065241** **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10836623 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 837 - Harrison TS**  
 22820 S State Route 291  
 Harrisonville, MO  
 US 64701  
 Contact: BRYAN SWANSON  
 bryanswanson@gflenv.com

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)

T:  
F: