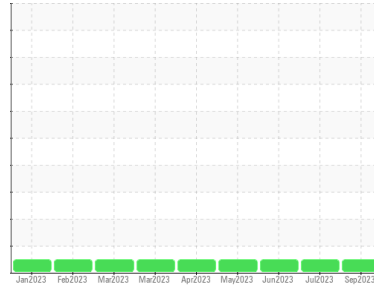




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**11319**

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>GFL0091395</b>  | GFL0088722  | GFL0083188  |
| Sample Date   | Client Info |             | <b>01 Sep 2023</b> | 23 Jul 2023 | 22 Jun 2023 |
| Machine Age   | hrs         | Client Info | <b>6537</b>        | 6391        | 6221        |
| Oil Age       | hrs         | Client Info | <b>6537</b>        | 1227        | 1057        |
| Oil Changed   | Client Info |             | <b>Not Changed</b> | Changed     | Not Changed |
| Sample Status |             |             | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## WEAR METALS

|          | method | limit/base       | current   | history1 | history2 |
|----------|--------|------------------|-----------|----------|----------|
| Iron     | ppm    | ASTM D5185m >160 | <b>56</b> | 59       | 59       |
| Chromium | ppm    | ASTM D5185m >5   | <b>0</b>  | 0        | 0        |
| Nickel   | ppm    | ASTM D5185m >5   | <b>0</b>  | 0        | <1       |
| Titanium | ppm    | ASTM D5185m      | <b>0</b>  | 0        | 0        |
| Silver   | ppm    | ASTM D5185m >5   | <b>0</b>  | 0        | 0        |
| Aluminum | ppm    | ASTM D5185m >50  | <b>15</b> | 14       | 11       |
| Lead     | ppm    | ASTM D5185m >50  | <b>2</b>  | 4        | 4        |
| Copper   | ppm    | ASTM D5185m >225 | <b>18</b> | 16       | 17       |
| Tin      | ppm    | ASTM D5185m >10  | <b>2</b>  | 2        | 2        |
| Vanadium | ppm    | ASTM D5185m      | <b>0</b>  | <1       | 0        |
| Cadmium  | ppm    | ASTM D5185m      | <b>0</b>  | 0        | 0        |

## ADDITIVES

|            | method | limit/base  | current      | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m | <b>65</b>    | 90       | 83       |
| Barium     | ppm    | ASTM D5185m | <b>&lt;1</b> | 0        | 0        |
| Molybdenum | ppm    | ASTM D5185m | <b>0</b>     | <1       | <1       |
| Manganese  | ppm    | ASTM D5185m | <b>1</b>     | 1        | 1        |
| Magnesium  | ppm    | ASTM D5185m | <b>2</b>     | 0        | 0        |
| Calcium    | ppm    | ASTM D5185m | <b>108</b>   | 103      | 113      |
| Phosphorus | ppm    | ASTM D5185m | <b>242</b>   | 242      | 232      |
| Zinc       | ppm    | ASTM D5185m | <b>5</b>     | 0        | 8        |
| Sulfur     | ppm    | ASTM D5185m | <b>1658</b>  | 1703     | 1548     |

## CONTAMINANTS

|           | method | limit/base      | current  | history1 | history2 |
|-----------|--------|-----------------|----------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >20 | <b>4</b> | 4        | 4        |
| Sodium    | ppm    | ASTM D5185m     | <b>9</b> | 6        | 0        |
| Potassium | ppm    | ASTM D5185m >20 | <b>3</b> | 2        | 3        |

## VISUAL

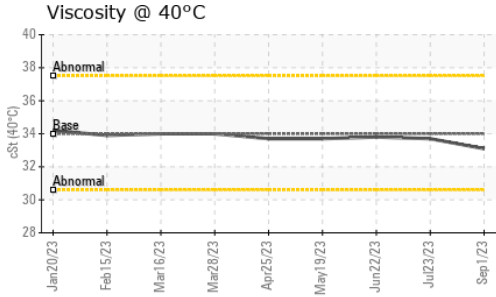
|                  | method | limit/base    | current      | history1 | history2 |
|------------------|--------|---------------|--------------|----------|----------|
| White Metal      | scalar | *Visual NONE  | <b>NONE</b>  | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual NONE  | <b>NONE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

## FLUID PROPERTIES

|             | method | limit/base   | current     | history1 | history2 |
|-------------|--------|--------------|-------------|----------|----------|
| Visc @ 40°C | cSt    | ASTM D445 34 | <b>33.1</b> | 33.7     | 33.8     |

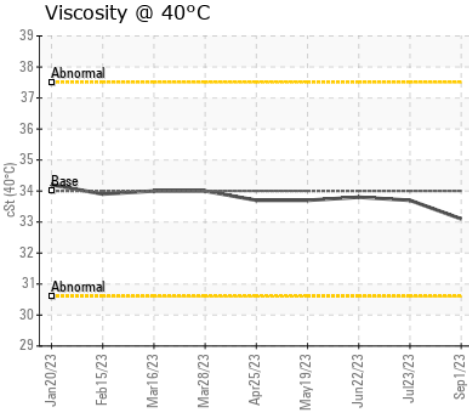
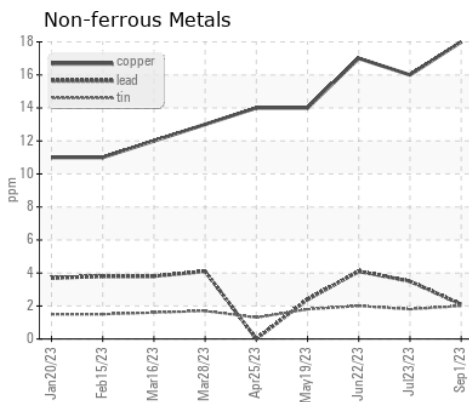
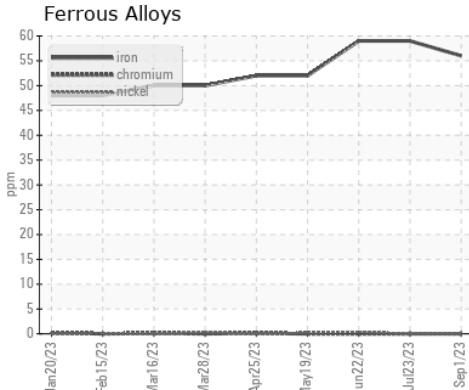


# OIL ANALYSIS REPORT



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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0091395 **Received** : 06 Sep 2023  
**Lab Number** : 05944016 **Diagnosed** : 08 Sep 2023  
**Unique Number** : 10634628 **Diagnostician** : Sean Felton  
**Test Package** : FLEET

**GFL Environmental - 010 - Stockbridge**  
 1280 Rum Creek Parkway  
 Stockbridge, GA  
 US 30281  
 Contact: TECHNICIAN ACCOUNT  
 wcgfldemo@gmail.com  
 T:  
 F:

Certificate L2367  
 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)