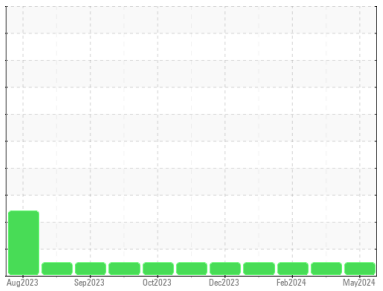
# OIL ANALYSIS REPORT

Area
**(C0807580) {UNASSIGNED}**
Machine Id
**834020**
Component
**Transmission (Auto)**
Fluid
**PETRO CANADA DuraDrive HD Synthetic 668 (8 GAL)**

Sample Rating Trend




**NORMAL**

## 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 | | **GFL0118031** | GFL0112360 | GFL0109950 |
| Sample Date | | Client Info | | **08 May 2024** | 29 Feb 2024 | 02 Feb 2024 |
| Machine Age | hrs | Client Info | | **2238** | 1795 | 1626 |
| Oil Age | hrs | Client Info | | **2226** | 597 | 1626 |
| Oil Changed | | Client Info | | **Not Changd** | Changed | Not Changd |
| Sample Status | | | | **NORMAL** | NORMAL | NORMAL |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Water | | WC Method | >0.1 | **NEG** | NEG | NEG |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >230 | **60** | 81 | 91 |
| Chromium | ppm | ASTM D5185m | >2 | **<1** | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | **0** | <1 | 0 |
| Titanium | ppm | ASTM D5185m | >2 | **<1** | <1 | 0 |
| Silver | ppm | ASTM D5185m | >5 | **0** | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >65 | **25** | 32 | 38 |
| Lead | ppm | ASTM D5185m | >55 | **16** | 21 | 24 |
| Copper | ppm | ASTM D5185m | >85 | **9** | 17 | 19 |
| Tin | ppm | ASTM D5185m | >5 | **2** | 3 | 4 |
| Vanadium | ppm | ASTM D5185m | | **<1** | 0 | <1 |
| Cadmium | ppm | ASTM D5185m | | **0** | 0 | 0 |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **59** | 45 | 40 |
| Barium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | **<1** | 1 | 2 |
| Manganese | ppm | ASTM D5185m | | **<1** | 2 | 2 |
| Magnesium | ppm | ASTM D5185m | | **4** | 11 | 30 |
| Calcium | ppm | ASTM D5185m | | **188** | 110 | 145 |
| Phosphorus | ppm | ASTM D5185m | | **255** | 219 | 208 |
| Zinc | ppm | ASTM D5185m | | **44** | 30 | 57 |
| Sulfur | ppm | ASTM D5185m | | **1704** | 1512 | 1505 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >20 | **11** | 17 | 18 |
| Sodium | ppm | ASTM D5185m | | **4** | 7 | 8 |
| Potassium | ppm | ASTM D5185m | >20 | **3** | 4 | 5 |

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

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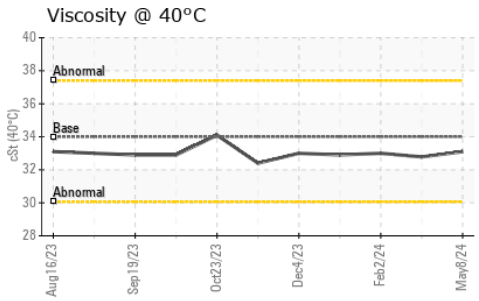
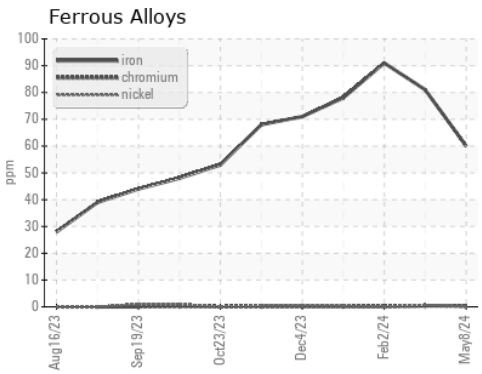
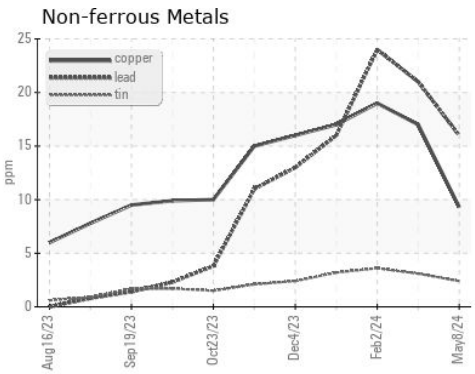


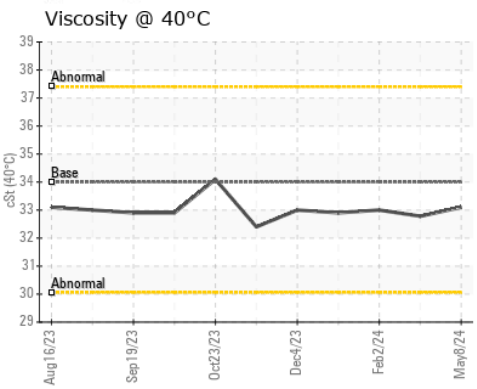

| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 34 | **33.1** | 32.78 | 33.0 |

| 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.** : GFL0118031
**Lab Number** : 06174415
**Unique Number** : 11020468
**Test Package** : FLEET

**Received** : 09 May 2024
**Tested** : 10 May 2024
**Diagnosed** : 10 May 2024 - Wes Davis

**GFL Environmental - 010 - Stockbridge**
1280 Rum Creek Parkway
Stockbridge, GA
US 30281
Contact: JOSHUA TINKER
joshuatinker@gflenv.com
T:
F:

*To discuss this sample report, contact Customer Service at 1-800-237-1369.*
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*Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)*