



|                 |                 |
|-----------------|-----------------|
| WEAR            | <b>NORMAL</b>   |
| CONTAMINATION   | <b>ABNORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b>   |

Machine Id  
**927074-260325**  
 Component  
**Transmission (Auto)**  
 Fluid  
**PETRO CANADA DuraDrive HD Synthetic 668 (--- GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>GFL0118755</b>  | GFL0093714  | GFL0055628  |
| Sample Date    |     | Client Info |           | <b>15 Apr 2024</b> | 24 Oct 2023 | 22 Nov 2022 |
| Machine Age    | hrs | Client Info |           | <b>18694</b>       | 18001       | 16236       |
| Oil Age        | hrs | Client Info |           | <b>18694</b>       | 0           | 1200        |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 1200        |
| Oil Changed    |     | Client Info |           | <b>Not Changed</b> | Not Changed | Not Changed |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Sample Status  |     |             |           | <b>ABNORMAL</b>    | ABNORMAL    | ABNORMAL    |

**WEAR**

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185m | >160 | <b>105</b>   | 86   | 126  |
| Chromium     | ppm    | ASTM D5185m | >5   | <b>0</b>     | <1   | 0    |
| Nickel       | ppm    | ASTM D5185m | >5   | <b>0</b>     | 0    | 0    |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | <1   | <1   |
| Silver       | ppm    | ASTM D5185m | >5   | <b>0</b>     | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m | >50  | <b>20</b>    | 15   | 27   |
| Lead         | ppm    | ASTM D5185m | >50  | <b>21</b>    | 27   | 61   |
| Copper       | ppm    | ASTM D5185m | >225 | <b>47</b>    | 26   | 37   |
| Tin          | ppm    | ASTM D5185m | >10  | <b>4</b>     | 3    | 1    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

**CONTAMINATION**

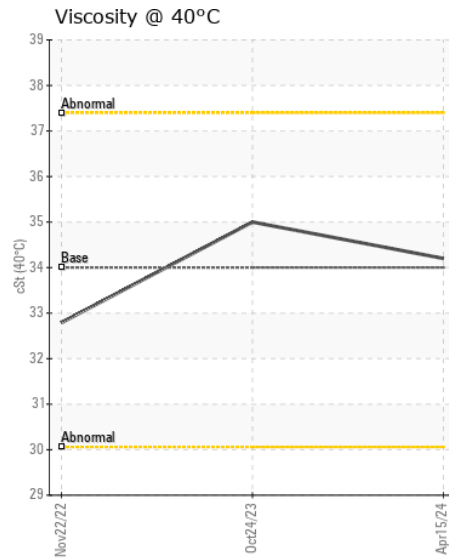
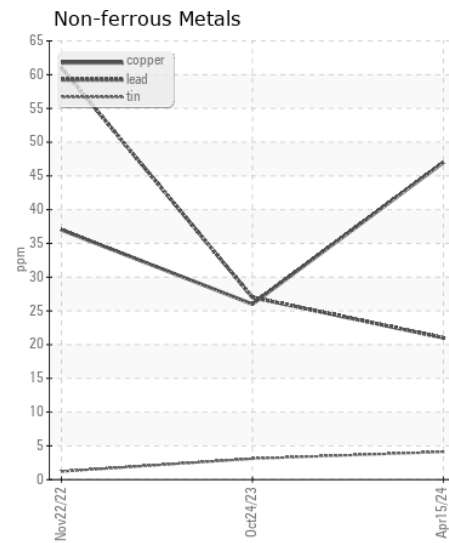
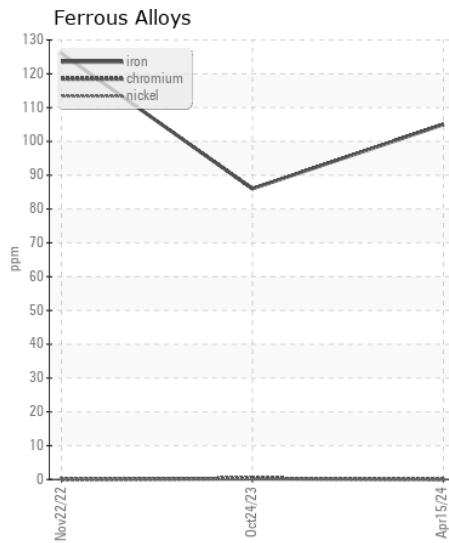
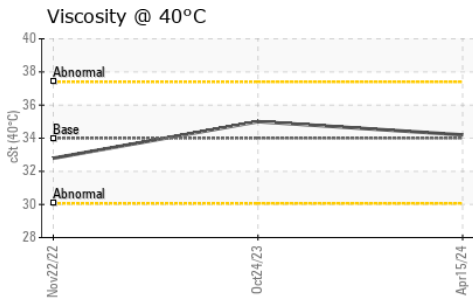
There is a moderate amount of visible silt present in the sample.

|                  |        |             |       |                |         |         |
|------------------|--------|-------------|-------|----------------|---------|---------|
| Silicon          | ppm    | ASTM D5185m | >20   | <b>10</b>      | 8       | 15      |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>&lt;1</b>   | 1       | 0       |
| Water            |        | WC Method   | >0.1  | <b>NEG</b>     | NEG     | NEG     |
| Silt             | scalar | *Visual     | NONE  | <b>▲ MODER</b> | NONE    | NONE    |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>    | ▲ MODER | ▲ MODER |
| 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     |

**FLUID CONDITION**

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

|             |     |             |    |             |      |       |
|-------------|-----|-------------|----|-------------|------|-------|
| Sodium      | ppm | ASTM D5185m |    | <b>7</b>    | 8    | 2     |
| Boron       | ppm | ASTM D5185m |    | <b>22</b>   | 83   | 89    |
| Barium      | ppm | ASTM D5185m |    | <b>0</b>    | 19   | 0     |
| Molybdenum  | ppm | ASTM D5185m |    | <b>2</b>    | 5    | 2     |
| Manganese   | ppm | ASTM D5185m |    | <b>2</b>    | 1    | 1     |
| Magnesium   | ppm | ASTM D5185m |    | <b>35</b>   | 72   | 25    |
| Calcium     | ppm | ASTM D5185m |    | <b>142</b>  | 181  | 141   |
| Phosphorus  | ppm | ASTM D5185m |    | <b>250</b>  | 315  | 237   |
| Zinc        | ppm | ASTM D5185m |    | <b>102</b>  | 124  | 45    |
| Sulfur      | ppm | ASTM D5185m |    | <b>1777</b> | 2086 | 1512  |
| Visc @ 40°C | cSt | ASTM D445   | 34 | <b>34.2</b> | 35.0 | 32.79 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0118755  
**Lab Number** : 06155392  
**Unique Number** : 10990815  
**Test Package** : FLEET

**Received** : 19 Apr 2024  
**Tested** : 22 Apr 2024  
**Diagnosed** : 24 Apr 2024 - Don Baldrige

**GFL Environmental - 837 - Harrison TS**  
 22820 S State Route 291  
 Harrisonville, MO  
 US 64701  
 Contact: SARA PATRICK  
 spatrack@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: