



Machine Id  
**4514**  
Component  
**Transmission (Auto)**  
Fluid  
**PETRO CANADA DuraDrive HD Synthetic 668 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>GFL0099548</b>  | GFL0099598  | GFL0099583  |
| Sample Date    |     | Client Info |           | <b>04 Jan 2024</b> | 20 Dec 2023 | 04 Dec 2023 |
| Machine Age    | kms | Client Info |           | <b>23330</b>       | 0           | 131717      |
| Oil Age        | kms | Client Info |           | <b>0</b>           | 0           | 0           |
| Filter Age     | kms | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | Not Changd  | N/A         |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | Not Changd  | N/A         |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ABNORMAL    | ABNORMAL    |

**WEAR**

All component wear rates are normal.

|              |        |               |      |              |      |      |
|--------------|--------|---------------|------|--------------|------|------|
| PQ           |        | ASTM D8184*   | >100 | <b>3</b>     | ---  | ---  |
| Iron         | ppm    | ASTM D5185(m) | >300 | <b>36</b>    | 107  | 129  |
| Chromium     | ppm    | ASTM D5185(m) | >2   | <b>0</b>     | <1   | <1   |
| Nickel       | ppm    | ASTM D5185(m) | >4   | <b>0</b>     | <1   | <1   |
| Titanium     | ppm    | ASTM D5185(m) | >3   | <b>0</b>     | 0    | 0    |
| Silver       | ppm    | ASTM D5185(m) | >5   | <b>0</b>     | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185(m) | >70  | <b>4</b>     | 15   | 19   |
| Lead         | ppm    | ASTM D5185(m) | >85  | <b>&lt;1</b> | 5    | 5    |
| Copper       | ppm    | ASTM D5185(m) | >90  | <b>3</b>     | 17   | 18   |
| Tin          | ppm    | ASTM D5185(m) | >10  | <b>0</b>     | <1   | <1   |
| Vanadium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | 0    |
| White Metal  | scalar | Visual*       | NONE | <b>VLITE</b> | NONE | NONE |
| Yellow Metal | scalar | Visual*       | NONE | <b>NONE</b>  | NONE | NONE |

**CONTAMINATION**

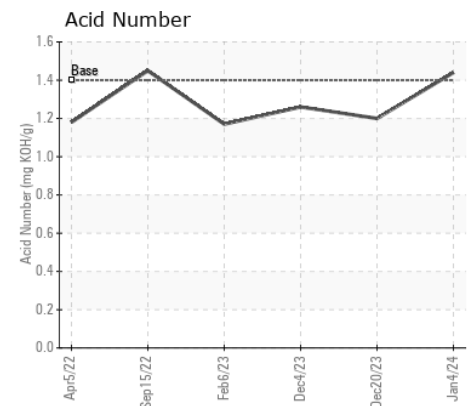
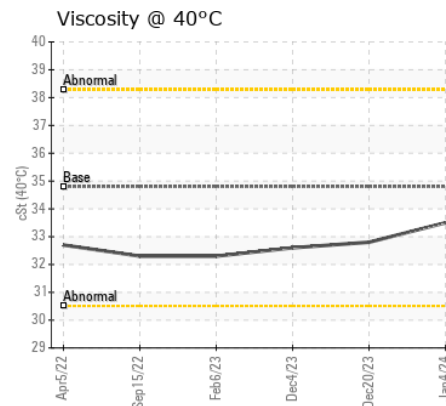
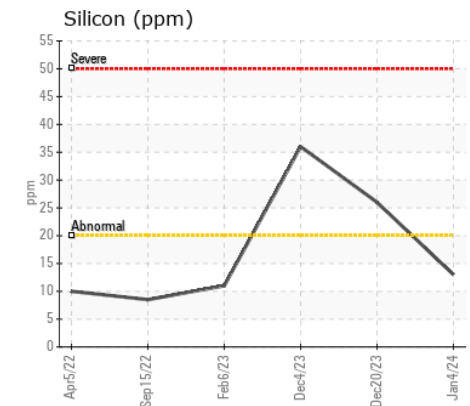
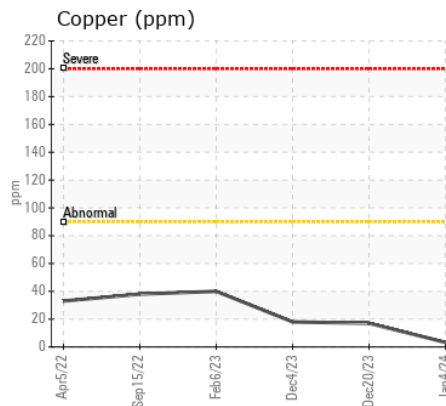
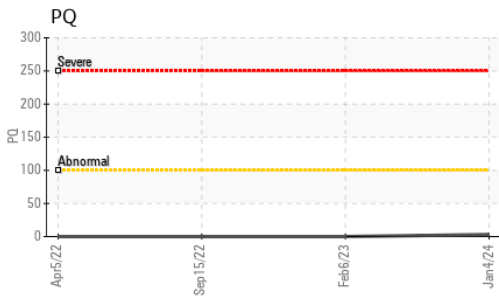
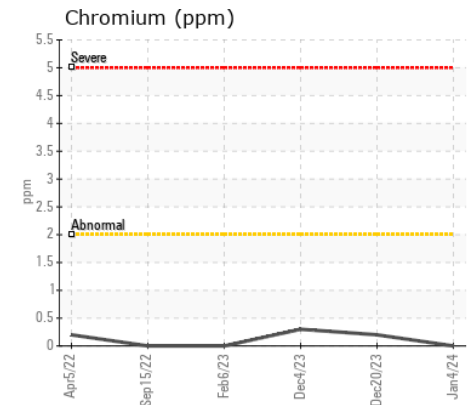
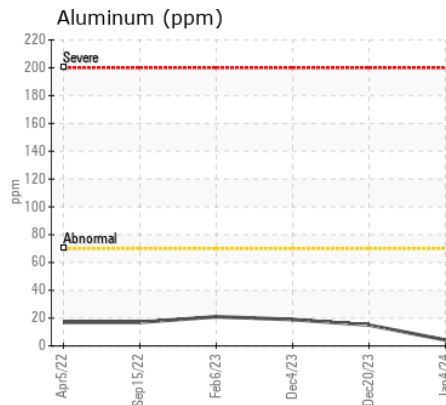
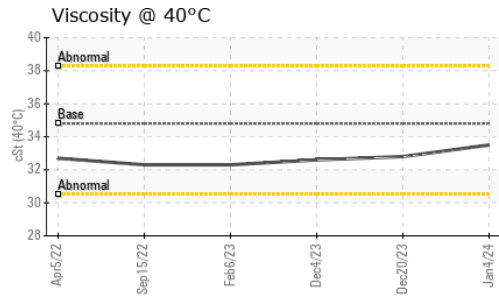
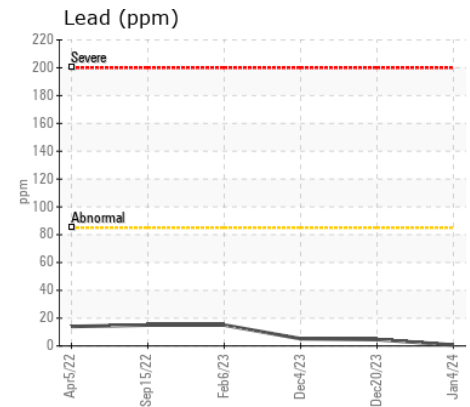
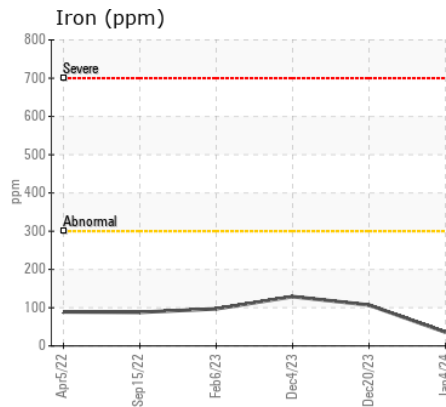
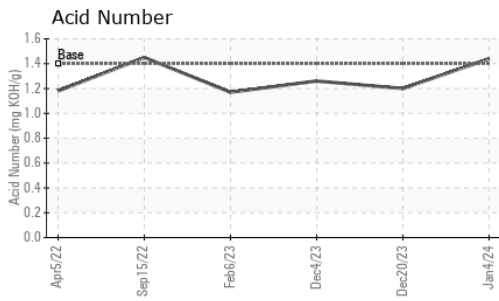
There is no indication of any contamination in the fluid.

|                  |        |               |       |              |       |       |
|------------------|--------|---------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185(m) | >20   | <b>13</b>    | ▲ 26  | ▲ 36  |
| Potassium        | ppm    | ASTM D5185(m) | >20   | <b>1</b>     | 4     | 3     |
| Water            |        | WC Method     | >0.1  | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | Visual*       | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Debris           | scalar | Visual*       | NONE  | <b>NONE</b>  | VLITE | NONE  |
| Sand/Dirt        | scalar | Visual*       | NONE  | <b>NONE</b>  | NONE  | LIGHT |
| 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 AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

|                  |          |               |      |             |      |      |
|------------------|----------|---------------|------|-------------|------|------|
| Sodium           | ppm      | ASTM D5185(m) |      | <b>2</b>    | 7    | 8    |
| Boron            | ppm      | ASTM D5185(m) | 78   | <b>72</b>   | 69   | 71   |
| Barium           | ppm      | ASTM D5185(m) |      | <b>0</b>    | 0    | 0    |
| Molybdenum       | ppm      | ASTM D5185(m) | 0    | <b>0</b>    | 0    | 0    |
| Manganese        | ppm      | ASTM D5185(m) |      | <b>0</b>    | <1   | <1   |
| Magnesium        | ppm      | ASTM D5185(m) | 0    | <b>2</b>    | 4    | 5    |
| Calcium          | ppm      | ASTM D5185(m) | 113  | <b>128</b>  | 140  | 147  |
| Phosphorus       | ppm      | ASTM D5185(m) | 222  | <b>213</b>  | 222  | 231  |
| Zinc             | ppm      | ASTM D5185(m) |      | <b>4</b>    | 8    | 8    |
| Sulfur           | ppm      | ASTM D5185(m) | 1326 | <b>1496</b> | 1561 | 1617 |
| Acid Number (AN) | mg KOH/g | ASTM D974*    | 1.4  | <b>1.44</b> | 1.20 | 1.26 |
| Visc @ 40°C      | cSt      | ASTM D7279(m) | 34.8 | <b>33.5</b> | 32.8 | 32.6 |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County  
**Sample No.** : GFL0099548 **Received** : 09 Jan 2024  
**Lab Number** : 02607559 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 5708645 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: PQ, TAN Man )

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

220 Carmek Blvd  
 Rocky View County, AB  
 CA T1X 1X1  
 Contact: GFL Calgary  
 calgarymaintenance@gflenv.com  
 T:  
 F: (403)369-6163