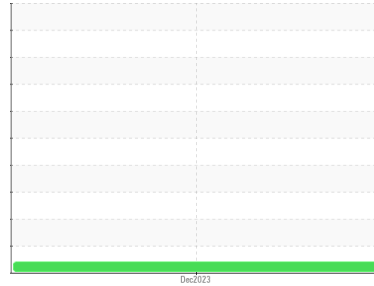


# OIL ANALYSIS REPORT

Sample Rating Trend



**VIS DEBRIS**



Machine Id  
**Thomas 3608**

Component  
**Transmission (Auto)**

Fluid  
**PETRO CANADA TEF 295 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### ▲ Contamination

Moderate concentration of visible dirt/debris present 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>PCA0091617</b>  | ---      | ---      |
| Sample Date        | Client Info |             |            | <b>07 Dec 2023</b> | ---      | ---      |
| Machine Age        | hrs         | Client Info |            | <b>111643</b>      | ---      | ---      |
| Oil Age            | hrs         | Client Info |            | <b>111643</b>      | ---      | ---      |
| Oil Changed        | Client Info |             |            | <b>Changed</b>     | ---      | ---      |
| Sample Status      |             |             |            | <b>ABNORMAL</b>    | ---      | ---      |

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

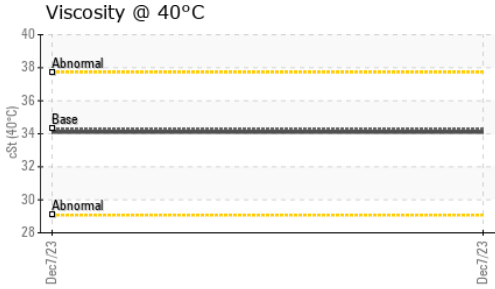
| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >160       | <b>49</b>    | ---      | ---      |
| Chromium    | ppm | ASTM D5185m | >5         | <b>&lt;1</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>15</b>    | ---      | ---      |
| Lead        | ppm | ASTM D5185m | >50        | <b>12</b>    | ---      | ---      |
| Copper      | ppm | ASTM D5185m | >225       | <b>35</b>    | ---      | ---      |
| Tin         | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | ---      | ---      |
| Vanadium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | ---      | ---      |
| Cadmium     | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |

| ADDITIVES  |     | method      | limit/base | current    | history1 | history2 |
|------------|-----|-------------|------------|------------|----------|----------|
| Boron      | ppm | ASTM D5185m | 100        | <b>101</b> | ---      | ---      |
| Barium     | ppm | ASTM D5185m |            | <b>0</b>   | ---      | ---      |
| Molybdenum | ppm | ASTM D5185m |            | <b>0</b>   | ---      | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>1</b>   | ---      | ---      |
| Magnesium  | ppm | ASTM D5185m |            | <b>0</b>   | ---      | ---      |
| Calcium    | ppm | ASTM D5185m | 30         | <b>23</b>  | ---      | ---      |
| Phosphorus | ppm | ASTM D5185m | 220        | <b>199</b> | ---      | ---      |
| Zinc       | ppm | ASTM D5185m | 4          | <b>0</b>   | ---      | ---      |
| Sulfur     | ppm | ASTM D5185m | 1060       | <b>515</b> | ---      | ---      |

| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >20        | <b>7</b>     | ---      | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>3</b>     | ---      | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>&lt;1</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>NONE</b>    | ---      | ---      |
| Debris           | scalar | *Visual | NONE       | <b>▲ MODER</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>     | ---      | ---      |

# OIL ANALYSIS REPORT

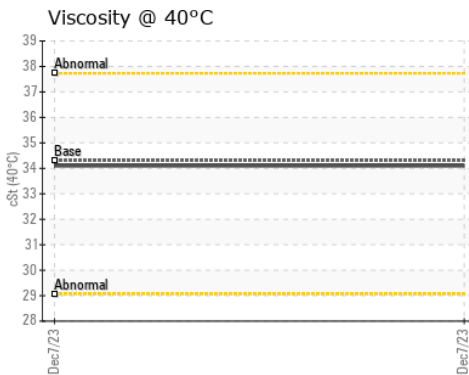
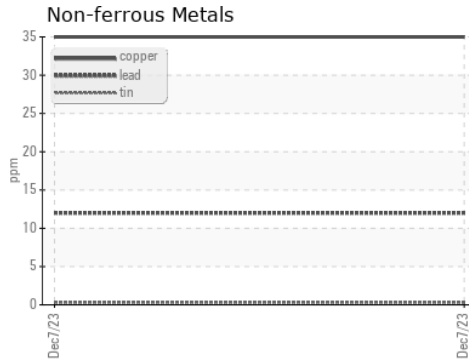
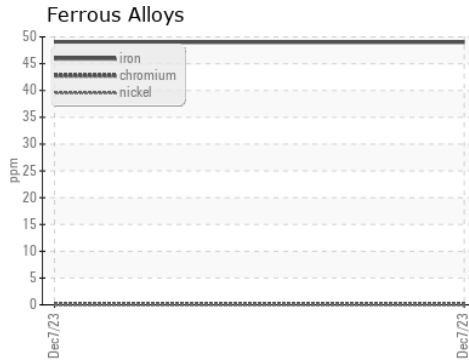


| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445  | 34.3    | ---      | ---      |

| 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.** : PCA0091617 **Received** : 20 Dec 2023  
**Lab Number** : **06040887** **Diagnosed** : 22 Dec 2023  
**Unique Number** : 10796116 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**ICSB370 - Alton**  
 4525 North Alby Road  
 Godfrey, IL  
 US 62035

Contact: Chad Ingold  
 c.ingold@illinois-central.com  
 T: (618)466-5400  
 F:

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)