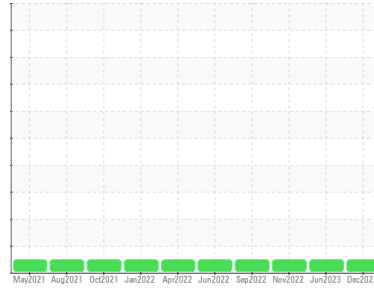


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**2026889**

Component  
**Rear Differential**  
Fluid

**PETRO CANADA TRAXON SYNTHETIC 75W90 (--- QTS)**

## 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 oil.

### Fluid Condition

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

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1    | history2    |
|--------------------|-------------|-------------|------------|--------------------|-------------|-------------|
| Sample Number      | Client Info |             |            | <b>PCA0114137</b>  | PCA0100354  | PCA0084919  |
| Sample Date        | Client Info |             |            | <b>06 Dec 2023</b> | 19 Jun 2023 | 22 Nov 2022 |
| Machine Age        | mls         | Client Info |            | <b>261953</b>      | 224230      | 184942      |
| Oil Age            | mls         | Client Info |            | <b>261953</b>      | 2240230     | 184942      |
| Oil Changed        | Client Info |             |            | <b>Not Changed</b> | Not Changd  | Not Changed |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | NORMAL      |

| CONTAMINATION |           | method | limit/base | current    | history1 | history2 |
|---------------|-----------|--------|------------|------------|----------|----------|
| Water         | WC Method |        | >.2        | <b>NEG</b> | NEG      | NEG      |

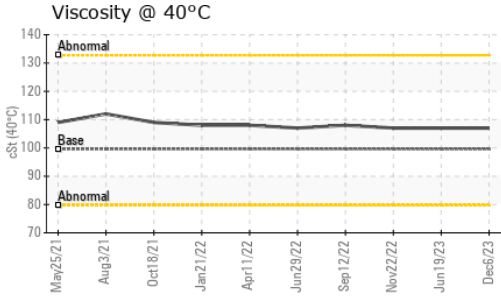
| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >500       | <b>160</b>   | 182      | 119      |
| Chromium    | ppm | ASTM D5185m | >10        | <b>2</b>     | 2        | 1        |
| Nickel      | ppm | ASTM D5185m | >10        | <b>7</b>     | 8        | 6        |
| Titanium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | <1       | 0        |
| Silver      | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Aluminum    | ppm | ASTM D5185m | >25        | <b>2</b>     | 3        | 3        |
| Lead        | ppm | ASTM D5185m | >25        | <b>0</b>     | 0        | 0        |
| Copper      | ppm | ASTM D5185m | >100       | <b>2</b>     | 2        | 2        |
| Tin         | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | <1       | 1        |
| Vanadium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | 0        |
| Cadmium     | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | 0        |

| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m | 328        | <b>411</b>   | 574      | 410      |
| Barium     | ppm | ASTM D5185m | 1          | <b>0</b>     | 0        | <1       |
| Molybdenum | ppm | ASTM D5185m |            | <b>&lt;1</b> | <1       | <1       |
| Manganese  | ppm | ASTM D5185m |            | <b>11</b>    | 14       | 10       |
| Magnesium  | ppm | ASTM D5185m | 1          | <b>2</b>     | 0        | <1       |
| Calcium    | ppm | ASTM D5185m | 7          | <b>15</b>    | 19       | 16       |
| Phosphorus | ppm | ASTM D5185m | 1145       | <b>1197</b>  | 1672     | 1267     |
| Zinc       | ppm | ASTM D5185m | 3          | <b>0</b>     | 22       | 16       |
| Sulfur     | ppm | ASTM D5185m | 17909      | <b>26001</b> | 30958    | 26350    |

| CONTAMINANTS |     | method      | limit/base | current    | history1 | history2 |
|--------------|-----|-------------|------------|------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >75        | <b>39</b>  | 47       | 33       |
| Sodium       | ppm | ASTM D5185m |            | <b>7</b>   | 13       | 9        |
| Potassium    | ppm | ASTM D5185m | >20        | <b>160</b> | 208      | 169      |

| 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>LIGHT</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 | >.2        | <b>NEG</b>   | NEG      | NEG      |
| Free Water       | scalar | *Visual |            | <b>NEG</b>   | NEG      | NEG      |

# OIL ANALYSIS REPORT



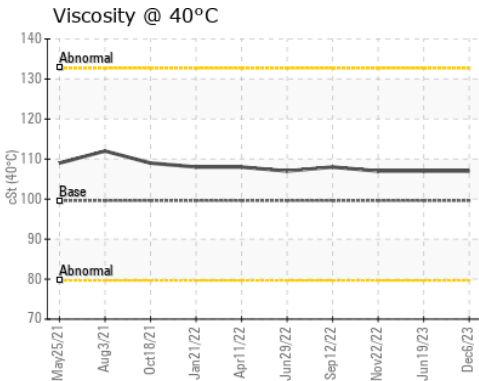
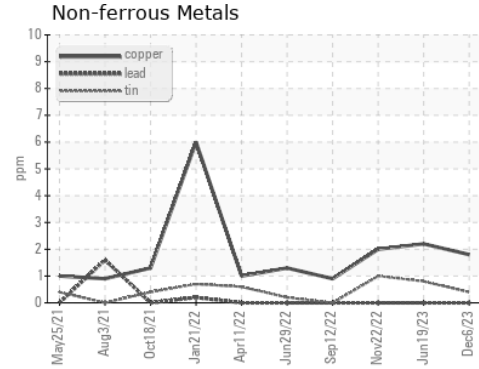
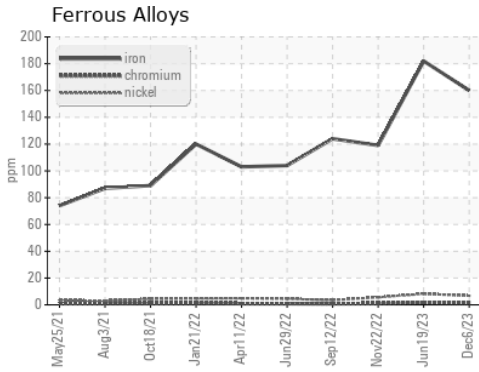
## FLUID PROPERTIES

| method      | limit/base    | current | history1 | history2 |
|-------------|---------------|---------|----------|----------|
| Visc @ 40°C | cSt ASTM D445 | 99.6    | 107      | 107      |

## 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.** : PCA0114137  
**Lab Number** : 06037118  
**Unique Number** : 10792347  
**Test Package** : FLEET

**PERDUE FARMS - GEORGETOWN**  
 20621 SAVANAH RD  
 GEORGETOWN, DE  
 US 19947  
 Contact: ROBERT LOCKWOOD  
 Robert.Lockwood@Perdue.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: