

# OIL ANALYSIS REPORT

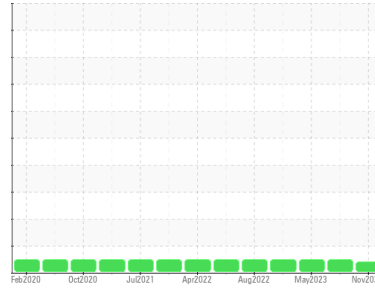
Sample Rating Trend

**VIS DEBRIS**

Machine Id  
**1926723**

Component  
**Front Differential**

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



## DIAGNOSIS

### Recommendation

We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. 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 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>PCA0113244</b>  | PCA0104353    | PCA0099332  |        |
| Sample Date   | Client Info | <b>26 Nov 2023</b> | 02 Sep 2023   | 16 May 2023 |        |
| Machine Age   | mls         | Client Info        | <b>389426</b> | 0           | 341556 |
| Oil Age       | mls         | Client Info        | <b>40000</b>  | 0           | 341556 |
| Oil Changed   | Client Info | <b>Not Chngd</b>   | Not Chngd     | Not Chngd   |        |
| Sample Status |             | <b>ABNORMAL</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>428</b>   | 382 | 378 |
| Chromium | ppm        | ASTM D5185m | >10      | <b>3</b>     | 3   | 3   |
| Nickel   | ppm        | ASTM D5185m | >10      | <b>6</b>     | 5   | 5   |
| Titanium | ppm        | ASTM D5185m |          | <b>&lt;1</b> | 0   | <1  |
| Silver   | ppm        | ASTM D5185m |          | <b>0</b>     | 0   | 0   |
| Aluminum | ppm        | ASTM D5185m | >25      | <b>1</b>     | 2   | 2   |
| Lead     | ppm        | ASTM D5185m | >25      | <b>3</b>     | 4   | 2   |
| Copper   | ppm        | ASTM D5185m | >100     | <b>69</b>    | 58  | 57  |
| Tin      | ppm        | ASTM D5185m | >10      | <b>3</b>     | 2   | 3   |
| Vanadium | ppm        | ASTM D5185m |          | <b>&lt;1</b> | <1  | 0   |
| Cadmium  | ppm        | ASTM D5185m |          | <b>&lt;1</b> | 0   | 0   |

## ADDITIVES

| method     | limit/base | current     | history1 | history2     |       |       |
|------------|------------|-------------|----------|--------------|-------|-------|
| Boron      | ppm        | ASTM D5185m | 328      | <b>175</b>   | 139   | 129   |
| Barium     | ppm        | ASTM D5185m | 1        | <b>0</b>     | 0     | 1     |
| Molybdenum | ppm        | ASTM D5185m |          | <b>&lt;1</b> | <1    | 0     |
| Manganese  | ppm        | ASTM D5185m |          | <b>13</b>    | 12    | 13    |
| Magnesium  | ppm        | ASTM D5185m | 1        | <b>&lt;1</b> | 0     | 2     |
| Calcium    | ppm        | ASTM D5185m | 7        | <b>9</b>     | 0     | 11    |
| Phosphorus | ppm        | ASTM D5185m | 1145     | <b>1247</b>  | 1320  | 1315  |
| Zinc       | ppm        | ASTM D5185m | 3        | <b>0</b>     | 0     | 17    |
| Sulfur     | ppm        | ASTM D5185m | 17909    | <b>25646</b> | 21932 | 21487 |

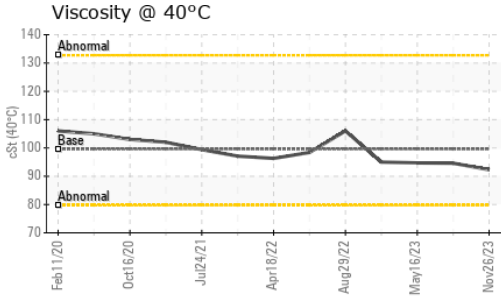
## CONTAMINANTS

| method    | limit/base | current     | history1 | history2  |    |    |
|-----------|------------|-------------|----------|-----------|----|----|
| Silicon   | ppm        | ASTM D5185m | >75      | <b>53</b> | 47 | 42 |
| Sodium    | ppm        | ASTM D5185m |          | <b>8</b>  | 9  | 9  |
| Potassium | ppm        | ASTM D5185m | >20      | <b>2</b>  | 0  | 2  |

## 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>▲ MODER</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   |

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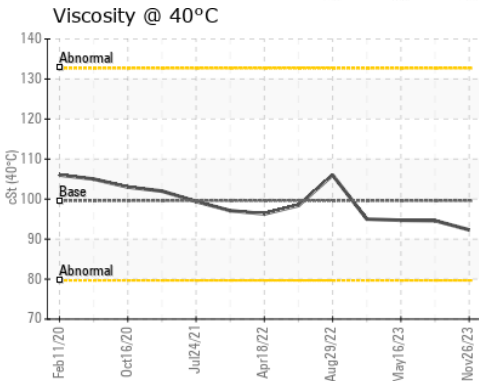
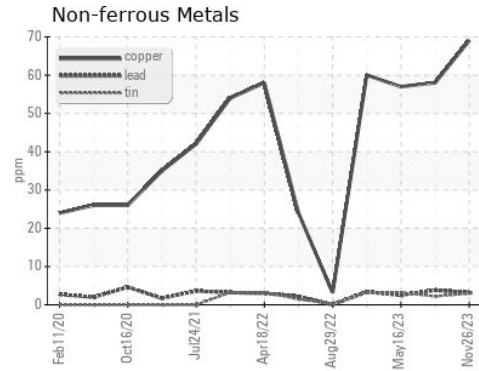
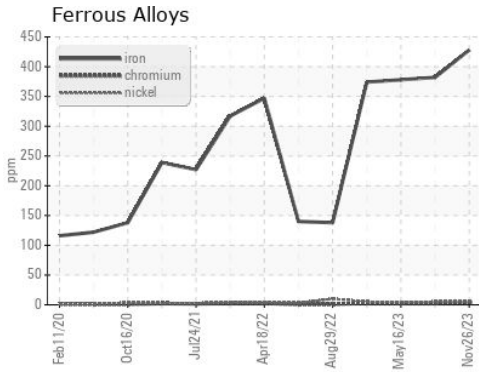
### FLUID PROPERTIES

| method      | limit/base    | current | history1 | history2 |
|-------------|---------------|---------|----------|----------|
| Visc @ 40°C | cSt ASTM D445 | 99.6    | 94.6     | 94.7     |

### 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.** : PCA0113244  
**Lab Number** : 06037138  
**Unique Number** : 10792367  
**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: