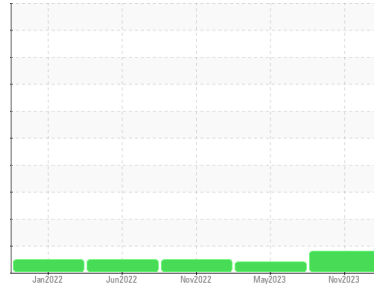


# PROBLEM SUMMARY

Sample Rating Trend



**SEDIMENT**



Machine Id  
**DT789**  
 Component  
**Rear Differential**  
 Fluid  
**PETRO CANADA TRAXON SYNTHETIC 75W90 (3 GAL)**

## COMPONENT CONDITION SUMMARY

No relevant graphs to display

## RECOMMENDATION

Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

| Sample Status |                | ABNORMAL | ABNORMAL       | NORMAL |
|---------------|----------------|----------|----------------|--------|
| Silt          | scalar *Visual | NONE     | <b>▲ HEAVY</b> | NONE   |

**Customer Id:** NWWPIE  
**Sample No.:** PCA0103285  
**Lab Number:** 05999413  
**Test Package:** FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 05 May 2023 Diag: Jonathan Hester

#### VIS DEBRIS



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. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

view report



### 01 Nov 2022 Diag: Sean Felton

#### NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



### 06 Jun 2022 Diag: Jonathan Hester

#### NORMAL



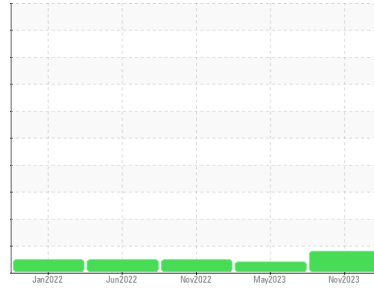
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



# OIL ANALYSIS REPORT

## Sample Rating Trend



## SEDIMENT



Machine Id  
**DT789**

Component  
**Rear Differential**

Fluid  
**PETRO CANADA TRAXON SYNTHETIC 75W90 (3 GAL)**

### DIAGNOSIS

#### ▲ Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### ▲ Contamination

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

#### 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>PCA0103285</b>  | PCA0096968  | PCA0080969  |
| Sample Date        | Client Info |             | <b>02 Nov 2023</b> | 05 May 2023 | 01 Nov 2022 |
| Machine Age        | mls         | Client Info | <b>122326</b>      | 104020      | 77912       |
| Oil Age            | mls         | Client Info | <b>96218</b>       | 26108       | 77912       |
| Oil Changed        | Client Info |             | <b>Not Chngd</b>   | Not Chngd   | Changed     |
| Sample Status      |             |             | <b>ABNORMAL</b>    | ABNORMAL    | NORMAL      |

| WEAR METALS | method | limit/base       | current      | history1 | history2 |
|-------------|--------|------------------|--------------|----------|----------|
| Iron        | ppm    | ASTM D5185m >500 | <b>265</b>   | 58       | 144      |
| Chromium    | ppm    | ASTM D5185m >10  | <b>2</b>     | <1       | 1        |
| Nickel      | ppm    | ASTM D5185m >10  | <b>0</b>     | 0        | 0        |
| 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>13</b>    | 0        | 2        |
| Lead        | ppm    | ASTM D5185m >25  | <b>0</b>     | 0        | 0        |
| Copper      | ppm    | ASTM D5185m >100 | <b>&lt;1</b> | 11       | <1       |
| Tin         | ppm    | ASTM D5185m >10  | <b>0</b>     | <1       | <1       |
| Vanadium    | ppm    | ASTM D5185m      | <b>0</b>     | 0        | 0        |
| Cadmium     | ppm    | ASTM D5185m      | <b>0</b>     | 0        | 0        |

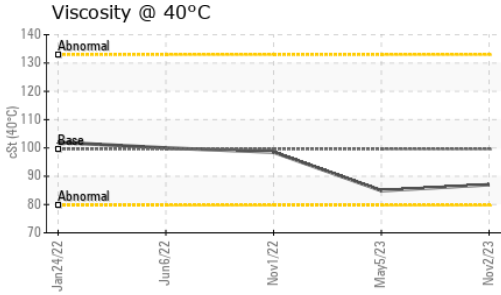
| ADDITIVES  | method | limit/base        | current      | history1 | history2 |
|------------|--------|-------------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m 328   | <b>205</b>   | 181      | 246      |
| Barium     | ppm    | ASTM D5185m 1     | <b>0</b>     | 0        | 2        |
| Molybdenum | ppm    | ASTM D5185m       | <b>18</b>    | 17       | <1       |
| Manganese  | ppm    | ASTM D5185m       | <b>3</b>     | 6        | 6        |
| Magnesium  | ppm    | ASTM D5185m 1     | <b>177</b>   | 201      | <1       |
| Calcium    | ppm    | ASTM D5185m 7     | <b>238</b>   | 245      | 10       |
| Phosphorus | ppm    | ASTM D5185m 1145  | <b>1275</b>  | 1324     | 1368     |
| Zinc       | ppm    | ASTM D5185m 3     | <b>266</b>   | 272      | 18       |
| Sulfur     | ppm    | ASTM D5185m 17909 | <b>19236</b> | 23121    | 27228    |

| CONTAMINANTS | method | limit/base      | current   | history1 | history2 |
|--------------|--------|-----------------|-----------|----------|----------|
| Silicon      | ppm    | ASTM D5185m >75 | <b>57</b> | 14       | 59       |
| Sodium       | ppm    | ASTM D5185m     | <b>5</b>  | 2        | 4        |
| Potassium    | ppm    | ASTM D5185m >20 | <b>4</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>HEAVY</b> | NONE     | NONE     |
| Debris           | scalar | *Visual NONE  | <b>NONE</b>    | ▲ MODER  | 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      |

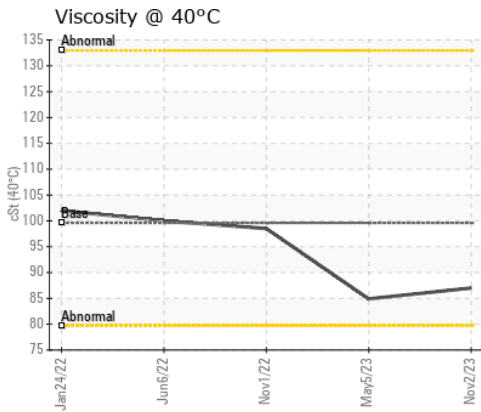
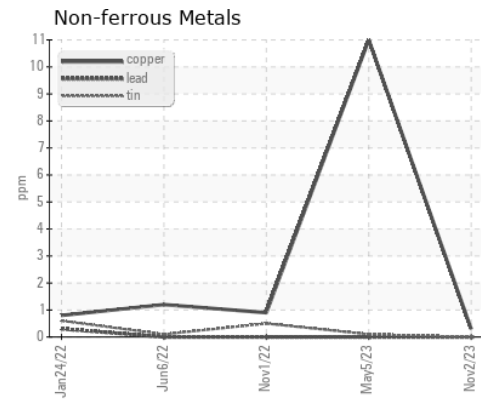
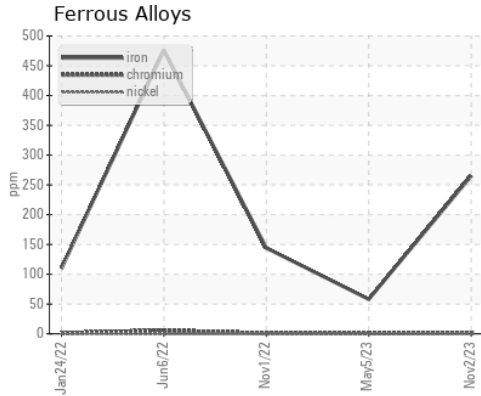
| FLUID PROPERTIES | method | limit/base     | current     | history1 | history2 |
|------------------|--------|----------------|-------------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445 99.6 | <b>87.0</b> | 84.9     | 98.5     |

# OIL ANALYSIS REPORT



| 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.** : PCA0103285 **Received** : 06 Nov 2023  
**Lab Number** : 05999413 **Diagnosed** : 08 Nov 2023  
**Unique Number** : 10727773 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**NW WHITE & CO - ANDERSON DIVISION**  
 2605 RIVER RD  
 PIEDMONT, SC  
 US 29673  
 Contact: James Threatt  
 jthreatt@nwwhite.com  
 T: (864)918-4646  
 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)