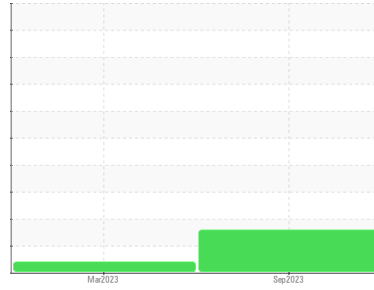


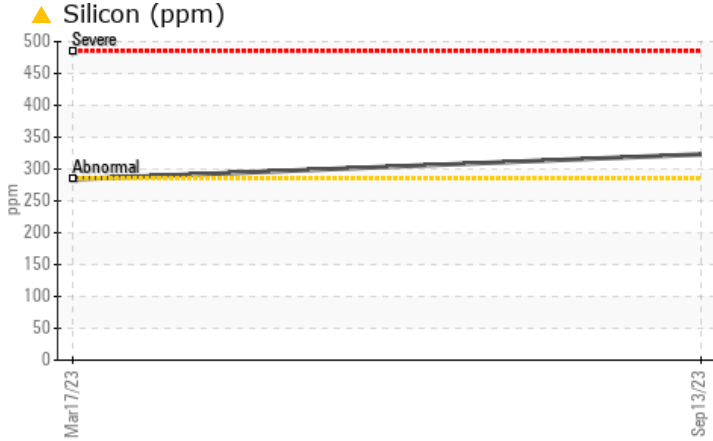
# PROBLEM SUMMARY

Sample Rating Trend



Machine Id  
**DT818**  
Component  
**Rear Differential**  
Fluid  
**PETRO CANADA TRAXON SYNTHETIC 75W90 (3 GAL)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	ABNORMAL	---
Silicon	ppm	ASTM D5185m	>285	<b>▲ 323</b>	284	---

**Customer Id:** NWWPIE  
**Sample No.:** PCA0103267  
**Lab Number:** 05955648  
**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

Action	Status	Date	Done By	Description
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

## HISTORICAL DIAGNOSIS

17 Mar 2023 Diag: Don Baldrige

### VIS DEBRIS



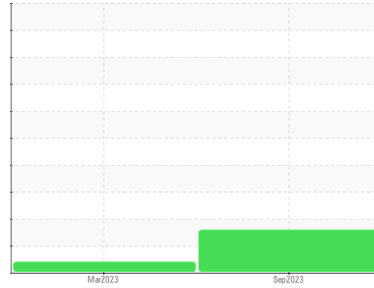
No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

view report



# OIL ANALYSIS REPORT

## Sample Rating Trend



**DIRT**



Machine Id  
**DT818**  
Component  
**Rear Differential**  
Fluid  
**PETRO CANADA TRAXON SYNTHETIC 75W90 (3 GAL)**

## DIAGNOSIS

### ▲ Recommendation

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### ▲ Contamination

Elemental level of silicon (Si) above normal.

### 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>PCA0103267</b>	PCA0091246	---
Sample Date	Client Info		<b>13 Sep 2023</b>	17 Mar 2023	---
Machine Age	mls	Client Info	<b>51659</b>	26287	---
Oil Age	mls	Client Info	<b>26287</b>	26287	---
Oil Changed	Client Info		<b>N/A</b>	Not Changd	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >870	<b>209</b>	158	---
Chromium	ppm	ASTM D5185m >8	<b>2</b>	<1	---
Nickel	ppm	ASTM D5185m >25	<b>9</b>	7	---
Titanium	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >40	<b>6</b>	2	---
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >60	<b>1</b>	0	---
Tin	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 328	<b>167</b>	163	---
Barium	ppm	ASTM D5185m 1	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>2</b>	1	---
Manganese	ppm	ASTM D5185m	<b>4</b>	3	---
Magnesium	ppm	ASTM D5185m 1	<b>17</b>	18	---
Calcium	ppm	ASTM D5185m 7	<b>69</b>	60	---
Phosphorus	ppm	ASTM D5185m 1145	<b>1163</b>	1066	---
Zinc	ppm	ASTM D5185m 3	<b>25</b>	29	---
Sulfur	ppm	ASTM D5185m 17909	<b>30929</b>	25056	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >285	<b>▲ 323</b>	284	---
Sodium	ppm	ASTM D5185m	<b>4</b>	2	---
Potassium	ppm	ASTM D5185m >20	<b>3</b>	2	---

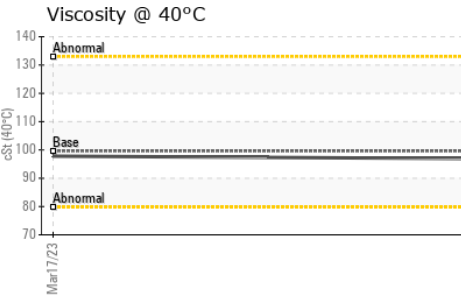
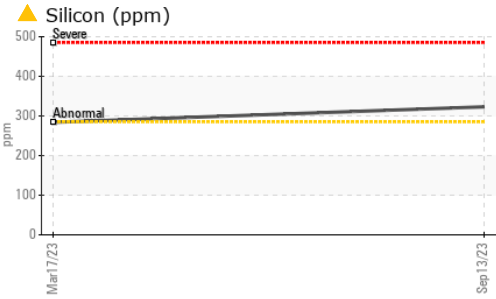
## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual NONE	<b>NONE</b>	<b>▲ MODER</b>	---
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual >.2	<b>NEG</b>	NEG	---
Free Water	scalar	*Visual	<b>NEG</b>	NEG	---

## FLUID PROPERTIES

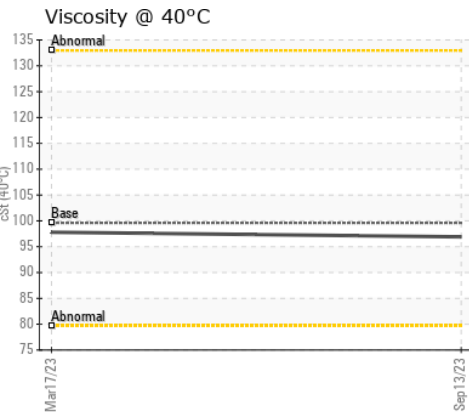
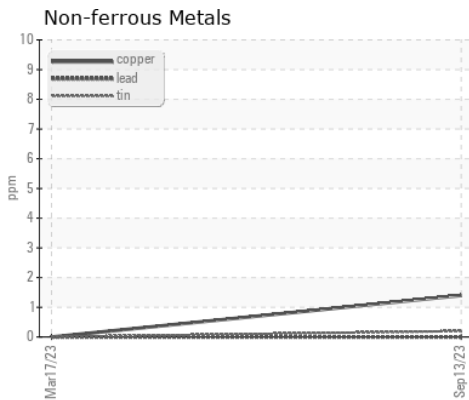
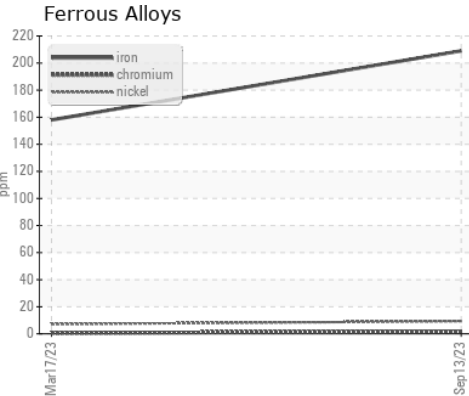
	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 99.6	<b>96.9</b>	97.8	---

# OIL ANALYSIS REPORT



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0103267 **Received** : 19 Sep 2023  
**Lab Number** : 05955648 **Diagnosed** : 21 Sep 2023  
**Unique Number** : 10656861 **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)