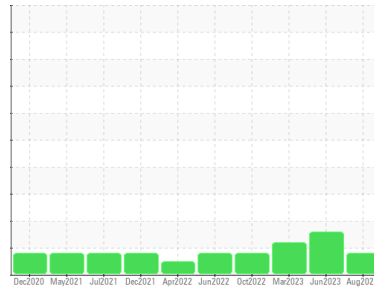


# PROBLEM SUMMARY

Sample Rating Trend



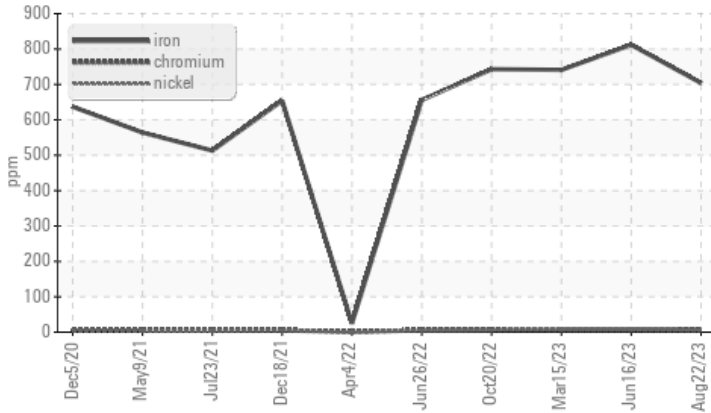
**WEAR**



Machine Id  
**2026870**  
Component  
**Front Differential**  
Fluid  
**PETRO CANADA TRAXON E SYNTHETIC 75W-90 (--- QTS)**

## COMPONENT CONDITION SUMMARY

### ▲ Ferrous Alloys



## RECOMMENDATION

No corrective action is recommended at this time.  
Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>500
	▲ 704	▲ 812	▲ 741

Customer Id: PERGEODE  
Sample No.: PCA0104349  
Lab Number: 06031975  
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Sean Felton +1 919-379-4092  
[sfelton@wearcheckusa.com](mailto:sfelton@wearcheckusa.com)

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

### 16 Jun 2023 Diag: Don Baldrige

WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



### 15 Mar 2023 Diag: Jonathan Hester

WEAR



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. Gear wear is indicated. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

view report



### 20 Oct 2022 Diag: Sean Felton

WEAR



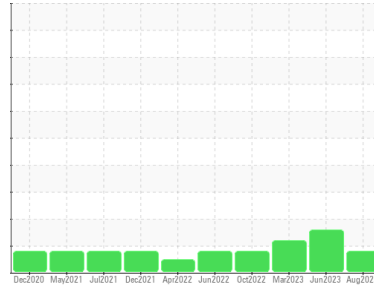
No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**2026870**

Component  
**Front Differential**

Fluid  
**PETRO CANADA TRAXON E SYNTHETIC 75W-90 (--- QTS)**

## DIAGNOSIS

### ▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### ▲ Wear

Gear wear is indicated.

### 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>PCA0104349</b>	PCA0100361	PCA0094898
Sample Date	Client Info		<b>22 Aug 2023</b>	16 Jun 2023	15 Mar 2023
Machine Age	mls	Client Info	<b>329701</b>	308188	282020
Oil Age	mls	Client Info	<b>329701</b>	308188	0
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## 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>▲ 704</b>	▲ 812	▲ 741
Chromium	ppm	ASTM D5185m >10	<b>6</b>	7	7
Nickel	ppm	ASTM D5185m >10	<b>6</b>	7	7
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	2	5
Lead	ppm	ASTM D5185m >25	<b>4</b>	3	3
Copper	ppm	ASTM D5185m >100	<b>93</b>	▲ 103	84
Tin	ppm	ASTM D5185m >10	<b>2</b>	3	4
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 229	<b>117</b>	129	181
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>20</b>	24	21
Magnesium	ppm	ASTM D5185m <1	<b>0</b>	0	5
Calcium	ppm	ASTM D5185m	<b>0</b>	8	12
Phosphorus	ppm	ASTM D5185m 1355	<b>1326</b>	1406	1400
Zinc	ppm	ASTM D5185m	<b>0</b>	18	14
Sulfur	ppm	ASTM D5185m 22698	<b>22770</b>	26705	27918

## CONTAMINANTS

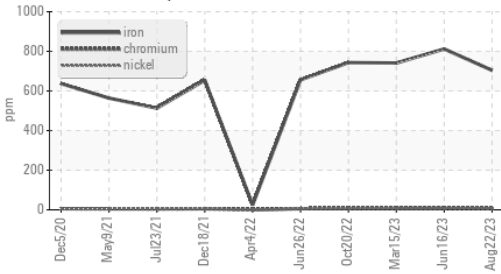
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>52</b>	55	49
Sodium	ppm	ASTM D5185m	<b>9</b>	10	11
Potassium	ppm	ASTM D5185m >20	<b>0</b>	2	3

## VISUAL

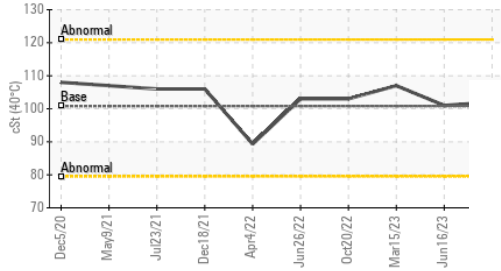
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	MODER	NONE
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	▲ MODER
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

### ▲ Ferrous Alloys



### Viscosity @ 40°C



### FLUID PROPERTIES

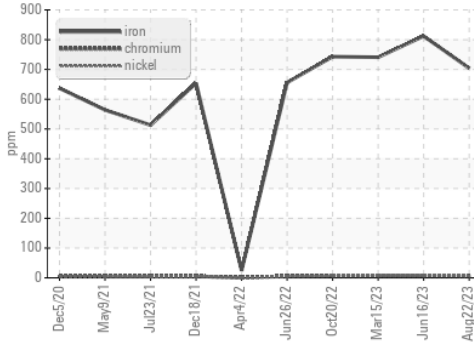
method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	100.8	101	107

### SAMPLE IMAGES

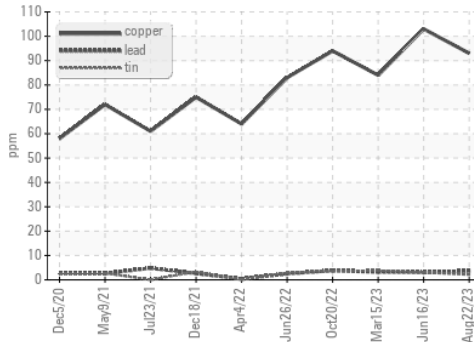
method	limit/base	current	history1	history2
Color		no image	no image	no image
Bottom		no image	no image	no image

### GRAPHS

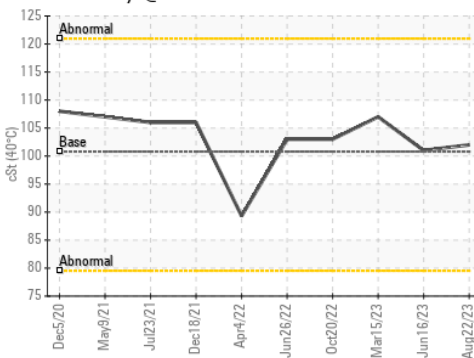
#### ▲ Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0104349 **Received** : 11 Dec 2023  
**Lab Number** : 06031975 **Diagnosed** : 14 Dec 2023  
**Unique Number** : 10781766 **Diagnostician** : Sean Felton  
**Test Package** : FLEET

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