



# OIL ANALYSIS REPORT

Sample Rating Trend

**WEAR**



Machine Id  
**420026**

Component  
**Front Differential**

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



## DIAGNOSIS

### ▲ Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

### ▲ Wear

Bearing and/or 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>GFL0114488</b>	---	---
Sample Date	Client Info	<b>11 Mar 2024</b>	---	---
Machine Age	mls	Client Info	<b>199138</b>	---
Oil Age	mls	Client Info	<b>0</b>	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## CONTAMINATION

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

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>500	<b>▲ 550</b>	---
Chromium	ppm	ASTM D5185m	>10	<b>3</b>	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Silver	ppm	ASTM D5185m		<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	---
Lead	ppm	ASTM D5185m	>25	<b>1</b>	---
Copper	ppm	ASTM D5185m	>100	<b>▲ 210</b>	---
Tin	ppm	ASTM D5185m	>10	<b>2</b>	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	328	<b>116</b>	---
Barium	ppm	ASTM D5185m	1	<b>9</b>	---
Molybdenum	ppm	ASTM D5185m		<b>7</b>	---
Manganese	ppm	ASTM D5185m		<b>26</b>	---
Magnesium	ppm	ASTM D5185m	1	<b>102</b>	---
Calcium	ppm	ASTM D5185m	7	<b>115</b>	---
Phosphorus	ppm	ASTM D5185m	1145	<b>1252</b>	---
Zinc	ppm	ASTM D5185m	3	<b>177</b>	---
Sulfur	ppm	ASTM D5185m	17909	<b>21644</b>	---

## CONTAMINANTS

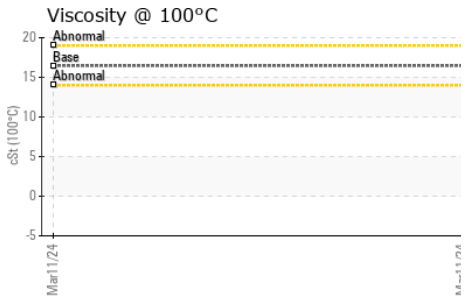
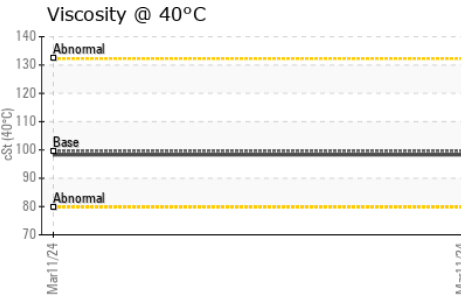
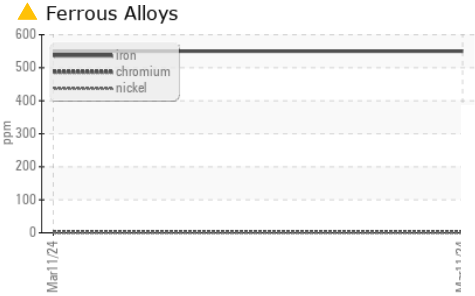
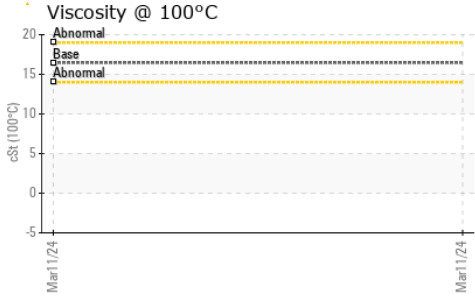
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>75	<b>39</b>	---
Sodium	ppm	ASTM D5185m		<b>13</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	---

## VISUAL

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



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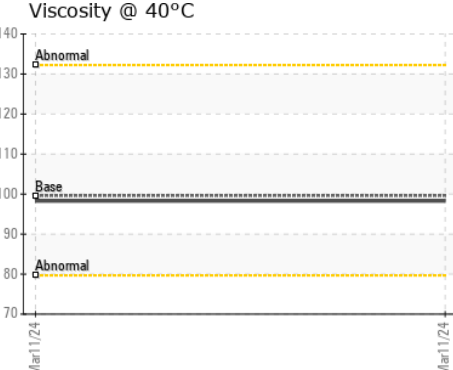
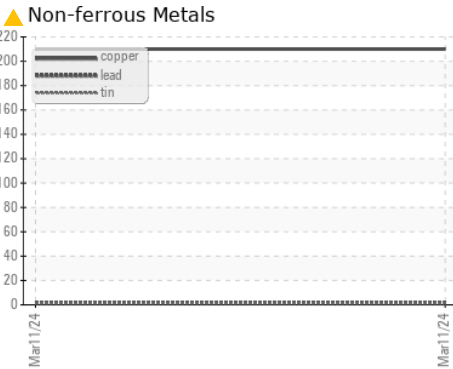
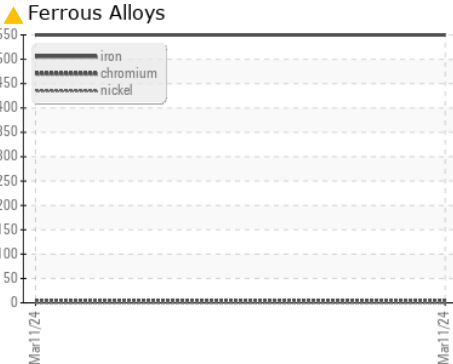
### FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	99.6	98.27	---

### 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.** : GFL0114488 **Received** : 19 Mar 2024  
**Lab Number** : 06122999 **Tested** : 25 Mar 2024  
**Unique Number** : 10937150 **Diagnosed** : 26 Mar 2024 - Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: FT-IR, KV100 )

**GFL Environmental - 865 - East Mount Hauling**  
 7213 East Mount Houston Road  
 Houston, TX  
 US 77050  
 Contact: TECHNICIAN ACCOUNT  
 wcgfldemo@gmail.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: