



# OIL ANALYSIS REPORT



Machine Id  
**428044**  
 Component  
**2 Differential**  
 Fluid  
**PETRO CANADA TRAXON SYNTHETIC 75W90 (--- GAL)**

### Sample Rating Trend



## DIAGNOSIS

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

**Wear**  
 Gear wear is indicated.

**Contamination**  
 Elemental level of silicon (Si) above normal indicating ingress of seal material.

**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>GFL0117820</b>	---	---
Sample Date	Client Info	<b>15 May 2024</b>	---	---
Machine Age	mls Client Info	<b>342616</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	<b>&gt;.2</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>1200	<b>▲ 1048</b>	---
Chromium	ppm ASTM D5185m	>8	<b>▲ 10</b>	---
Nickel	ppm ASTM D5185m	>20	<b>▲ 25</b>	---
Titanium	ppm ASTM D5185m	>4	<b>1</b>	---
Silver	ppm ASTM D5185m		<b>&lt;1</b>	---
Aluminum	ppm ASTM D5185m	>30	<b>8</b>	---
Lead	ppm ASTM D5185m	>25	<b>&lt;1</b>	---
Copper	ppm ASTM D5185m	>50	<b>4</b>	---
Tin	ppm ASTM D5185m	>5	<b>0</b>	---
Vanadium	ppm ASTM D5185m		<b>&lt;1</b>	---
Cadmium	ppm ASTM D5185m		<b>&lt;1</b>	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	328	<b>130</b>	---
Barium	ppm ASTM D5185m	1	<b>13</b>	---
Molybdenum	ppm ASTM D5185m		<b>1</b>	---
Manganese	ppm ASTM D5185m		<b>13</b>	---
Magnesium	ppm ASTM D5185m	1	<b>8</b>	---
Calcium	ppm ASTM D5185m	7	<b>44</b>	---
Phosphorus	ppm ASTM D5185m	1145	<b>1094</b>	---
Zinc	ppm ASTM D5185m	3	<b>24</b>	---
Sulfur	ppm ASTM D5185m	17909	<b>21148</b>	---

## CONTAMINANTS

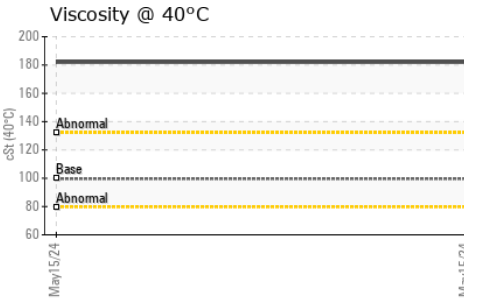
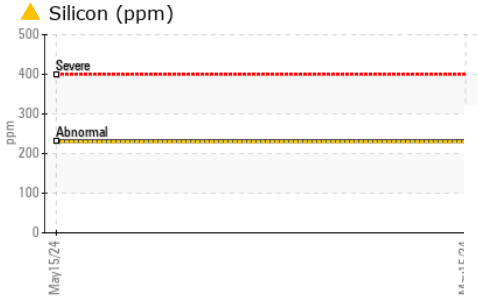
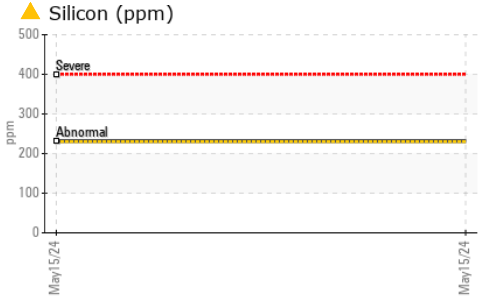
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>230	<b>▲ 231</b>	---
Sodium	ppm ASTM D5185m		<b>2</b>	---
Potassium	ppm ASTM D5185m	>20	<b>5</b>	---

## VISUAL

method	limit/base	current	history1	history2
White Metal	scalar *Visual	NONE	<b>NONE</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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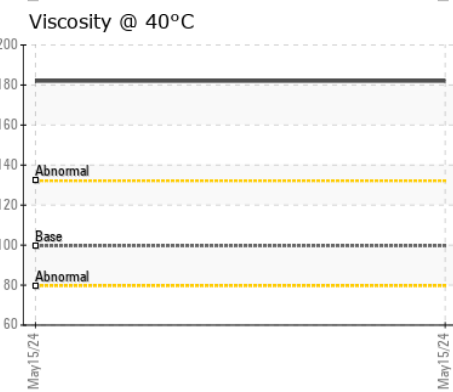
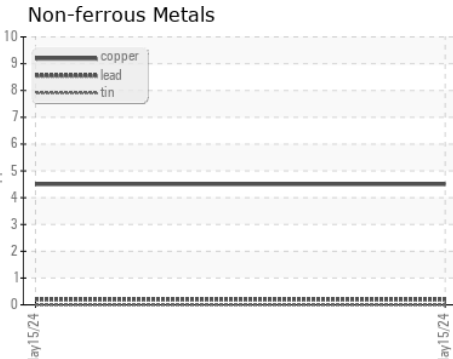
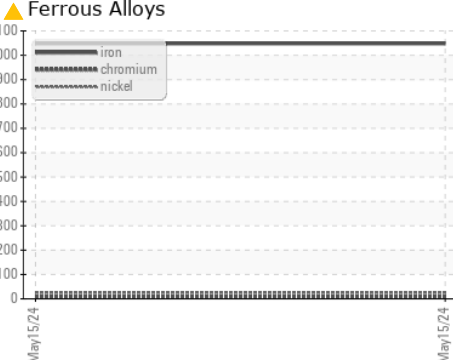
### FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	99.6	<b>182</b>	---

### 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.** : GFL0117820  
**Lab Number** : **06189844**  
**Unique Number** : 11046596  
**Test Package** : FLEET

**Received** : 23 May 2024  
**Tested** : 30 May 2024  
**Diagnosed** : 30 May 2024 - Jonathan Hester

**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: