



# OIL ANALYSIS REPORT



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

### Sample Rating Trend



**DIRT**



### DIAGNOSIS

#### ▲ Recommendation

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

#### Wear

All component wear rates are normal.

#### ▲ 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>GFL0117818</b>	---	---
Sample Date	Client Info	<b>15 May 2024</b>	---	---
Machine Age	mls	Client Info	<b>342612</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	>1200	<b>731</b>	---
Chromium	ppm	ASTM D5185m	>8	<b>5</b>	---
Nickel	ppm	ASTM D5185m	>20	<b>27</b>	---
Titanium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	---
Aluminum	ppm	ASTM D5185m	>30	<b>&lt;1</b>	---
Lead	ppm	ASTM D5185m	>25	<b>0</b>	---
Copper	ppm	ASTM D5185m	>50	<b>2</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>144</b>	---
Barium	ppm	ASTM D5185m	1	<b>0</b>	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	---
Manganese	ppm	ASTM D5185m		<b>8</b>	---
Magnesium	ppm	ASTM D5185m	1	<b>3</b>	---
Calcium	ppm	ASTM D5185m	7	<b>19</b>	---
Phosphorus	ppm	ASTM D5185m	1145	<b>1091</b>	---
Zinc	ppm	ASTM D5185m	3	<b>20</b>	---
Sulfur	ppm	ASTM D5185m	17909	<b>21710</b>	---

### CONTAMINANTS

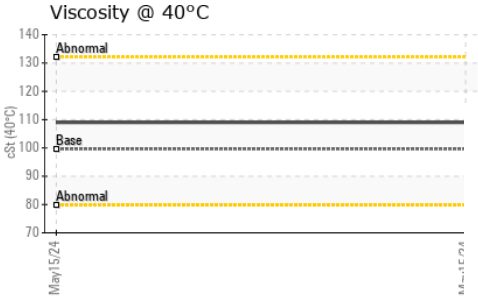
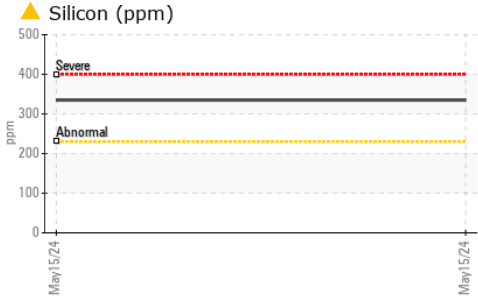
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>230	<b>▲ 335</b>	---
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	---

### 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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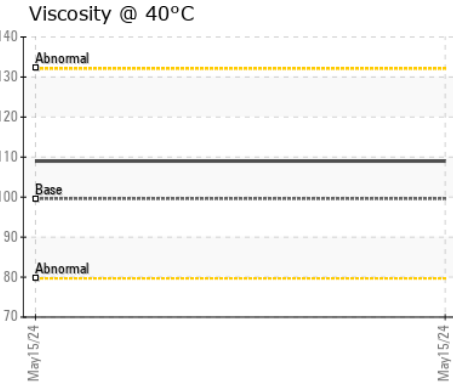
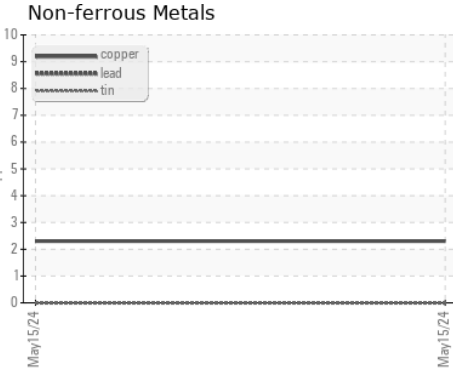
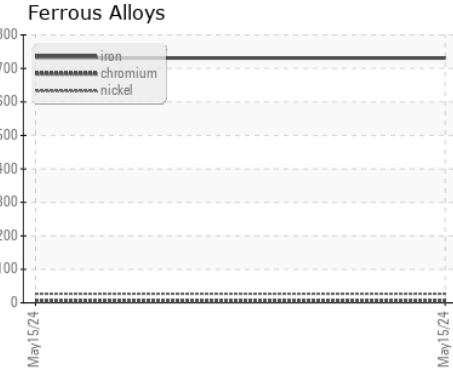
### FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	99.6	<b>109</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.** : GFL0117818      **Received** : 23 May 2024  
**Lab Number** : **06189845**      **Tested** : 30 May 2024  
**Unique Number** : 11046597      **Diagnosed** : 30 May 2024 - Jonathan Hester  
**Test Package** : FLEET

**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: