



# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**

Machine Id

**OE444**

Component

**Right Final Drive**

Fluid

**PETRO CANADA TRAXON E SYNTHETIC 80W-140 (2 LTR)**

## DIAGNOSIS

### Recommendation

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. The fluid was specified as PETRO CANADA TRAXON E SYNTHETIC 80W-140, however, a fluid match indicates that this fluid is SAE 90 Gear Oil. Please confirm the oil type and grade on your next sample.

### Wear

Chromium and iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

Viscosity of sample indicates oil is within SAE 90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0124633</b>	---	---
Sample Date	Client Info		<b>30 May 2024</b>	---	---
Machine Age	hrs	Client Info	<b>947</b>	---	---
Oil Age	hrs	Client Info	<b>500</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>4</b>	---	---
Iron	ppm	ASTM D5185(m) >500	<b>▲ 1045</b>	---	---
Chromium	ppm	ASTM D5185(m) >10	<b>▲ 12</b>	---	---
Nickel	ppm	ASTM D5185(m) >10	<b>2</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>3</b>	---	---
Silver	ppm	ASTM D5185(m)	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m) >25	<b>7</b>	---	---
Lead	ppm	ASTM D5185(m) >25	<b>2</b>	---	---
Copper	ppm	ASTM D5185(m) >50	<b>69</b>	---	---
Tin	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	---	---
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---	---

## ADDITIVES

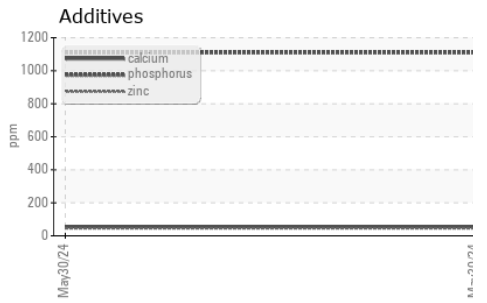
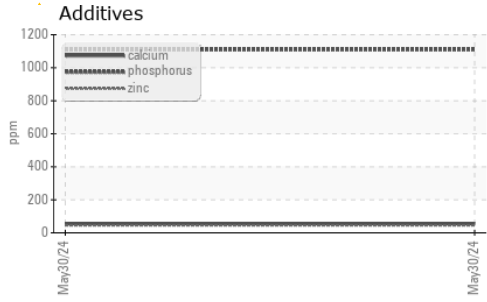
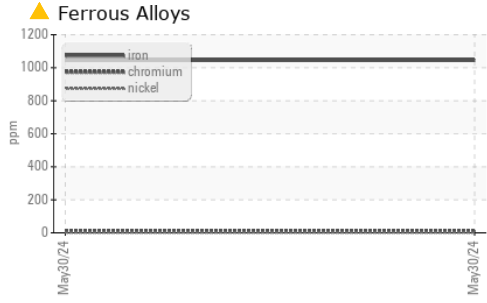
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 202	<b>123</b>	---	---
Barium	ppm	ASTM D5185(m) <1	<b>8</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>21</b>	---	---
Magnesium	ppm	ASTM D5185(m) <1	<b>9</b>	---	---
Calcium	ppm	ASTM D5185(m)	<b>55</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 1209	<b>1110</b>	---	---
Zinc	ppm	ASTM D5185(m) 1	<b>45</b>	---	---
Sulfur	ppm	ASTM D5185(m) 20439	<b>18743</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >75	<b>23</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>20</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>16</b>	---	---



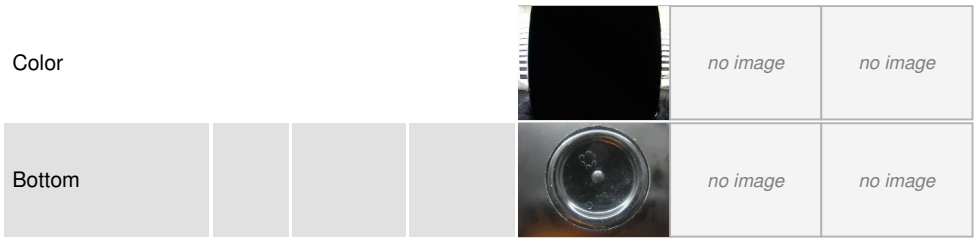
# OIL ANALYSIS REPORT



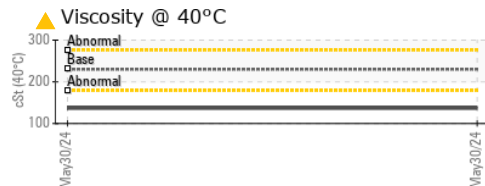
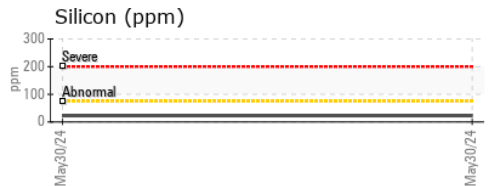
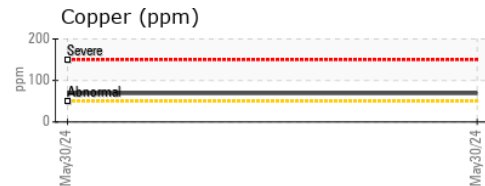
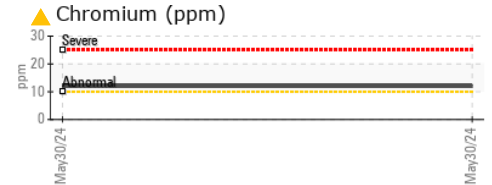
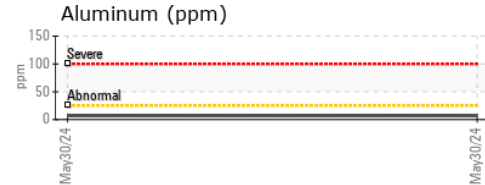
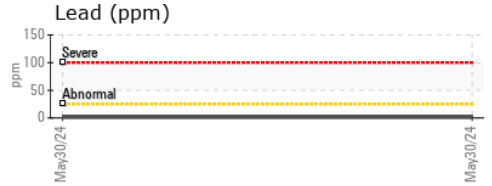
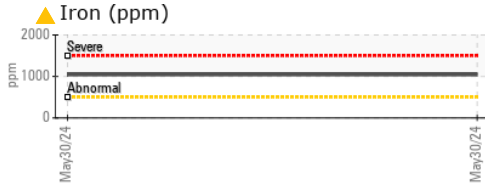
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---
Free Water	scalar	Visual*		<b>NEG</b>	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	230 ▲ <b>137</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 720 - Lafleche - Landfill**  
**Sample No.** : GFL0124633 **Received** : 31 May 2024 17125 Lafleche Road,  
**Lab Number** : **02639224** **Tested** : 03 Jun 2024 Moose Creek, ON  
**Unique Number** : 5788386 **Diagnosed** : 03 Jun 2024 - Kevin Marson CA K0C 1W0  
**Test Package** : MOB 1 ( Additional Tests: PQ ) Contact: Charles Bergeron  
 cbergeron@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.