



Machine Id

**BS #24**

Component

**Diesel Engine**

Fluid

**PETRO CANADA SUPREME SYNTHETIC 0W30 (--- GAL)**

**RECOMMENDATION**

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA SUPREME SYNTHETIC 0W30, however, a fluid match indicates that this fluid is SAE 5W40 Diesel Engine Oil. Please confirm the oil type and grade on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0072925</b>	---	---
Sample Date		Client Info		<b>22 May 2024</b>	---	---
Machine Age	hrs	Client Info		<b>423</b>	---	---
Oil Age	hrs	Client Info		<b>423</b>	---	---
Filter Age	hrs	Client Info		<b>423</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

**WEAR**

Metal levels are typical for a components first oil change.

Iron	ppm	ASTM D5185(m)	>100	<b>15</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>1</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>12</b>	---	---
Copper	ppm	ASTM D5185(m)	>330	<b>482</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---

**CONTAMINATION**

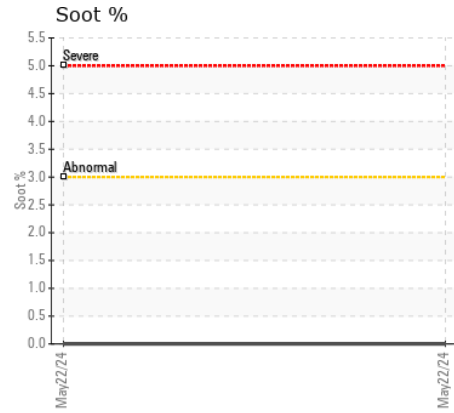
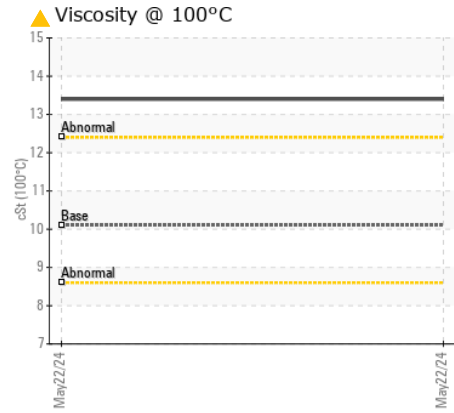
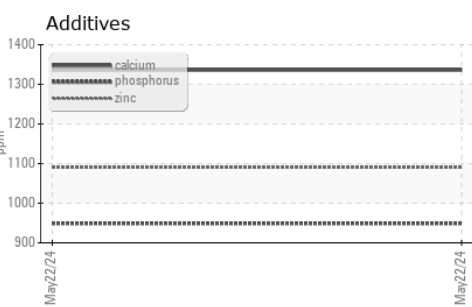
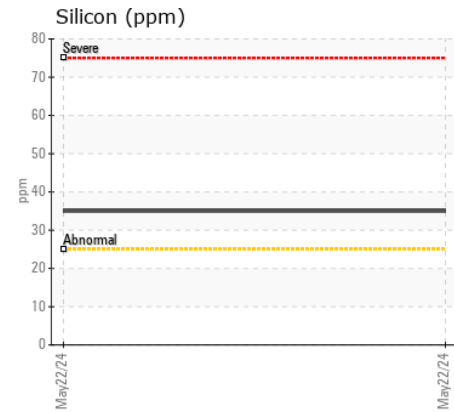
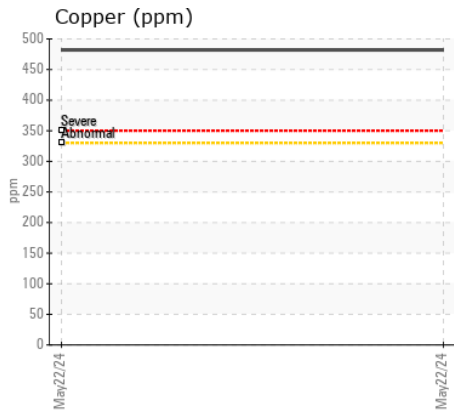
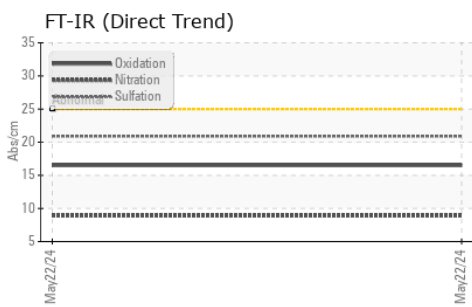
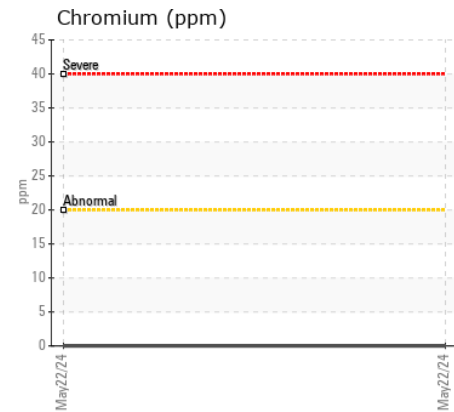
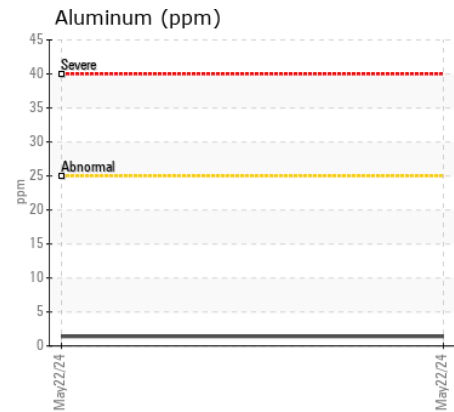
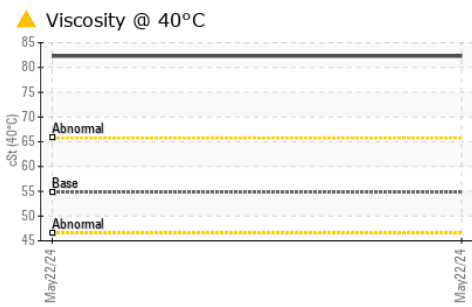
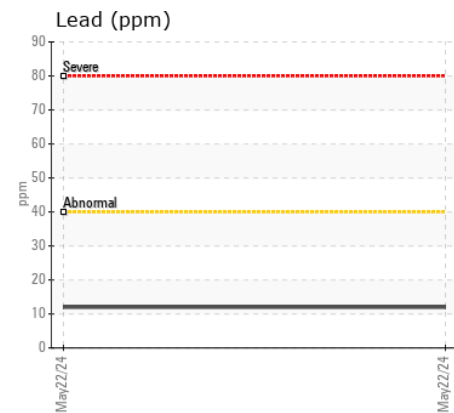
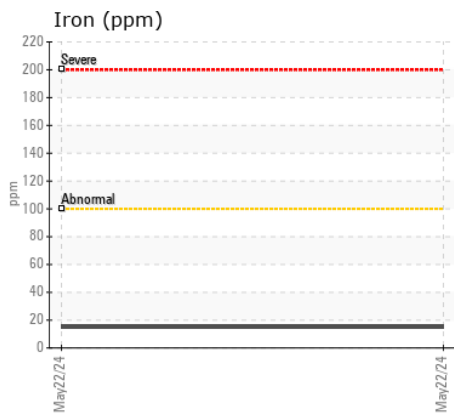
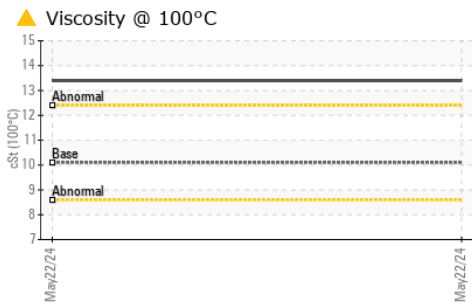
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>35</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	---	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	ASTM D7844*	>3	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.9</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.9</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---

**FLUID CONDITION**

Viscosity of sample indicates oil is within SAE 5W40 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>4</b>	---	---
Boron	ppm	ASTM D5185(m)	185	<b>57</b>	---	---
Barium	ppm	ASTM D5185(m)	0	<b>1</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	78	<b>11</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>2</b>	---	---
Magnesium	ppm	ASTM D5185(m)	564	<b>722</b>	---	---
Calcium	ppm	ASTM D5185(m)	984	<b>1336</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	748	<b>949</b>	---	---
Zinc	ppm	ASTM D5185(m)	822	<b>1090</b>	---	---
Sulfur	ppm	ASTM D5185(m)	2584	<b>2663</b>	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.5</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	54.79	<b>▲ 82.3</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.10	<b>▲ 13.4</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	174	<b>165</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0072925 **Received** : 29 May 2024  
**Lab Number** : 02638404 **Tested** : 29 May 2024  
**Unique Number** : 5787566 **Diagnosed** : 29 May 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

**THE GEORGIAN PEAKS CLUB**  
 P.O.BOX 400  
 THORNBURY, ON  
 CA N0H 2P0  
 Contact: Darrell Dennis  
 darrell@georgianpeaks.com  
 T: (519)599-6771  
 F: (519)599-2026

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.