



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id

**35**

Component

**Diesel Engine**

Fluid

**PETRO CANADA SUPREME SYNTHETIC 5W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0035322</b>	PC0066781	PC0064256
Sample Date		Client Info		<b>09 May 2024</b>	22 Jan 2024	14 Jun 2023
Machine Age	hrs	Client Info		<b>11455</b>	11186	10939
Oil Age	hrs	Client Info		<b>250</b>	247	250
Filter Age	hrs	Client Info		<b>250</b>	247	250
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>18</b>	62	14
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>1</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	7	3
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

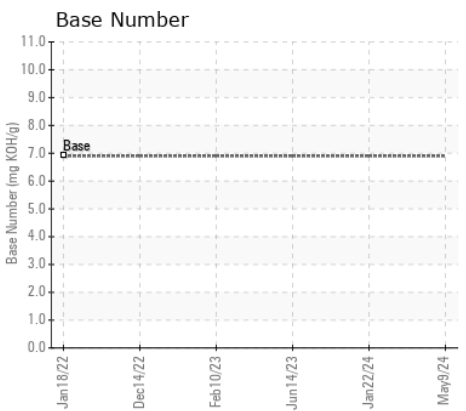
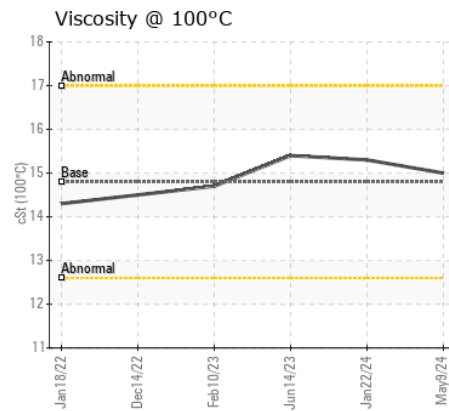
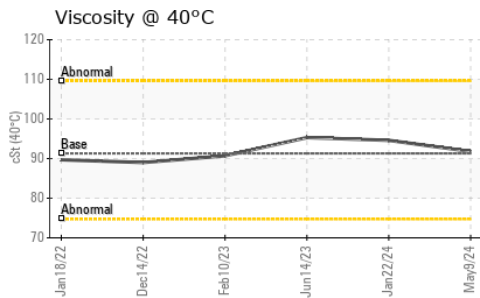
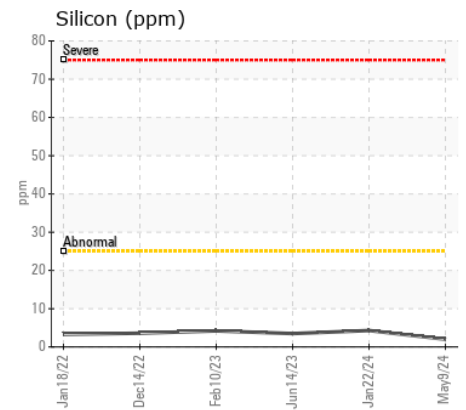
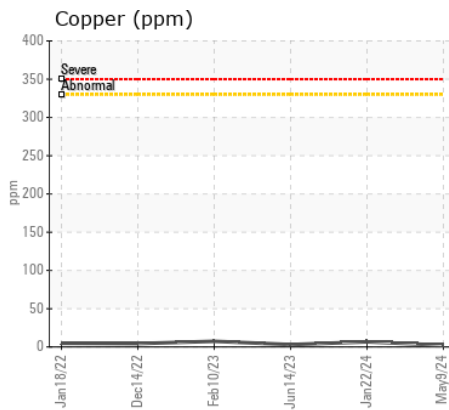
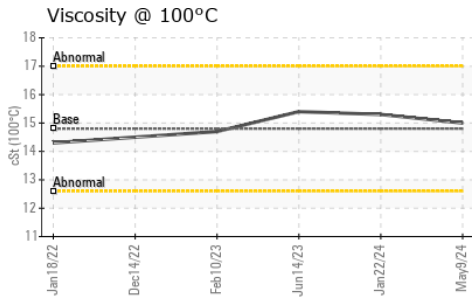
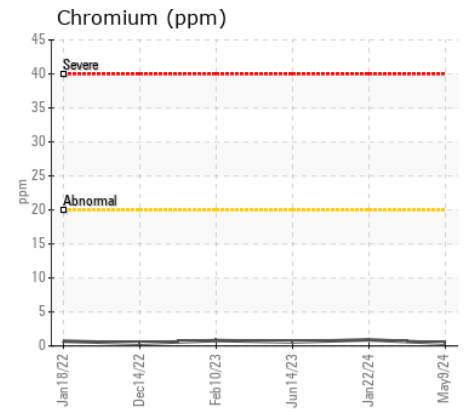
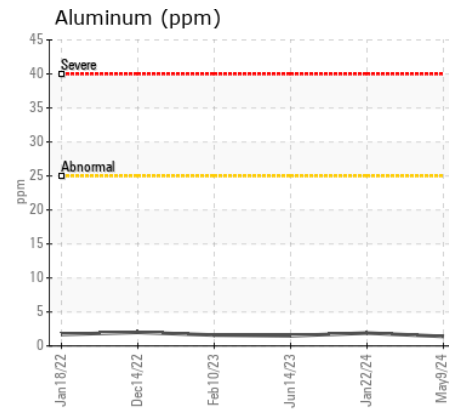
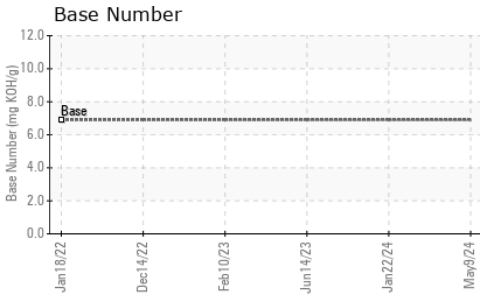
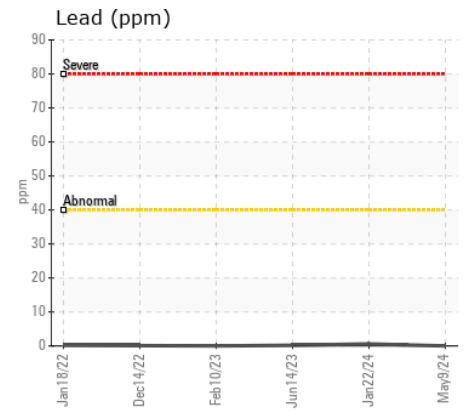
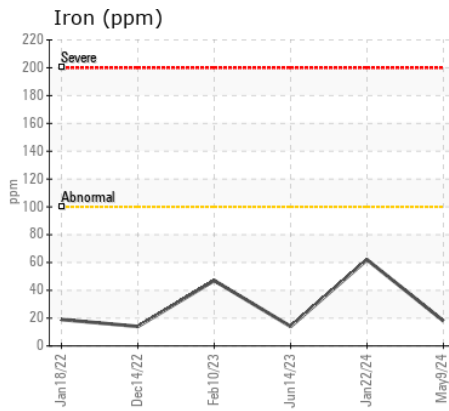
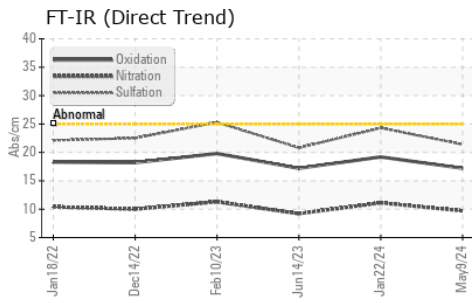
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>1.3</b>	1.9	1
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.7</b>	11.1	9.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.4</b>	24.3	20.8
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		<b>4</b>	4	5
Boron	ppm	ASTM D5185(m)	190	<b>34</b>	25	41
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	79	<b>57</b>	59	60
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	564	<b>1081</b>	1045	1101
Calcium	ppm	ASTM D5185(m)	993	<b>807</b>	794	804
Phosphorus	ppm	ASTM D5185(m)	763	<b>979</b>	911	1024
Zinc	ppm	ASTM D5185(m)	835	<b>1143</b>	1134	1170
Sulfur	ppm	ASTM D5185(m)	2536	<b>2670</b>	2727	2691
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.2</b>	19.2	17.2
Base Number (BN)	mg KOH/g	ASTM D2896*	6.9	<b>10.90</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	91.3	<b>91.8</b>	94.6	95.3
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	<b>15.0</b>	15.3	15.4
Viscosity Index (VI)	Scale	ASTM D2270*	170	<b>172</b>	171	171



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0035322 **Received** : 14 May 2024  
**Lab Number** : 02635213 **Tested** : 15 May 2024  
**Unique Number** : 5776366 **Diagnosed** : 15 May 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV40, VI )

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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.