



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
10 REGIONAL RD 21
Component
Diesel Engine
Fluid
PETRO CANADA XR 4 SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0849158	WC0817460	---
Sample Date		Client Info		25 Jan 2024	31 May 2023	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	7	15	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	0	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	<1	0	---
Aluminum	ppm	ASTM D5185(m)	>20	2	2	---
Lead	ppm	ASTM D5185(m)	>40	1	1	---
Copper	ppm	ASTM D5185(m)	>330	4	6	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

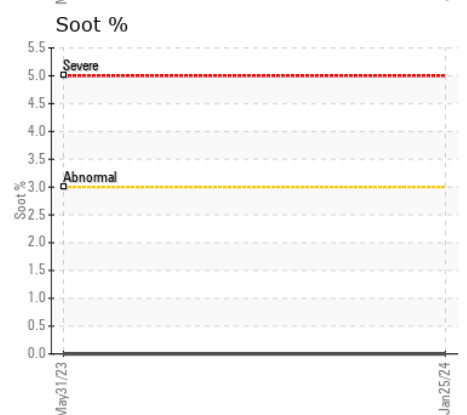
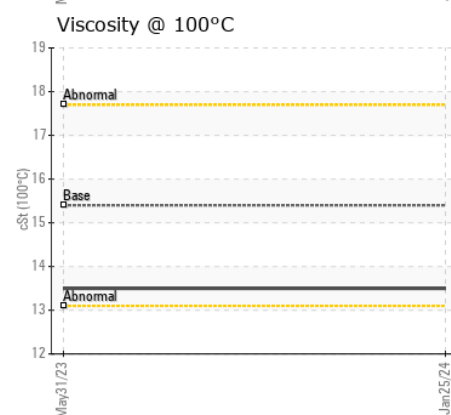
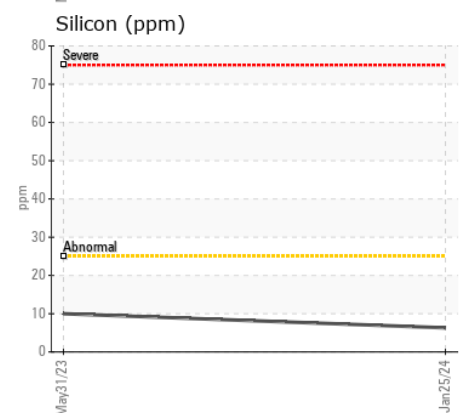
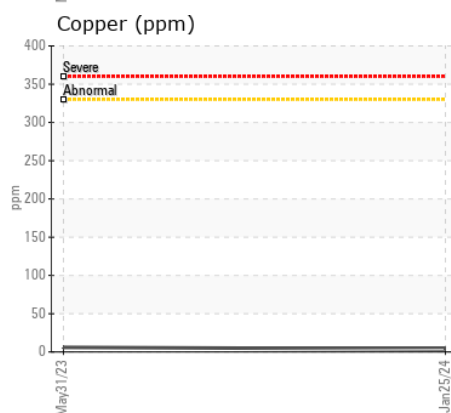
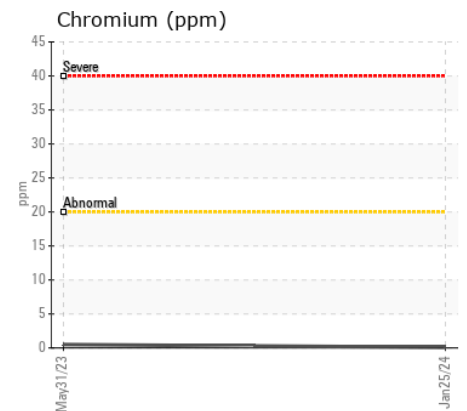
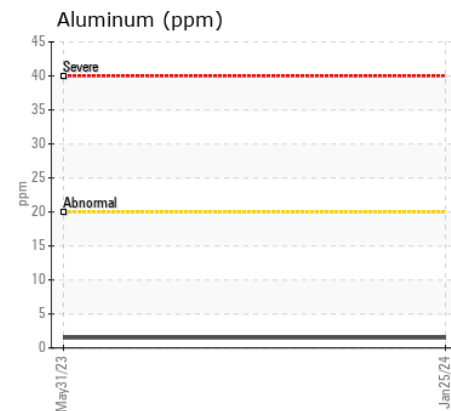
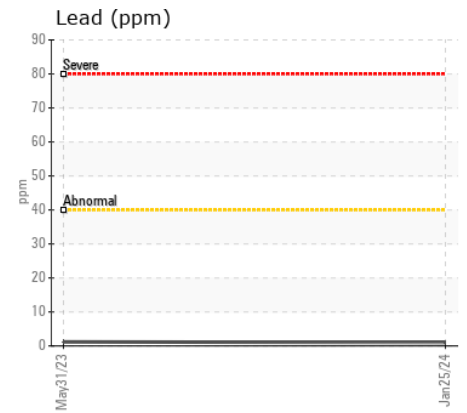
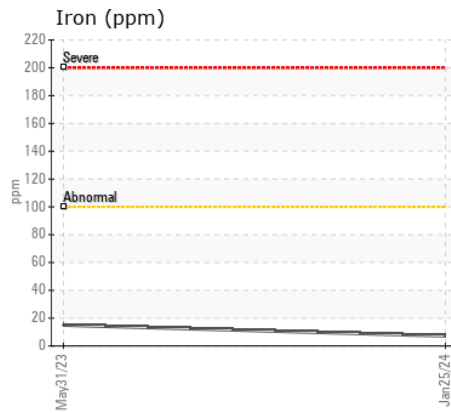
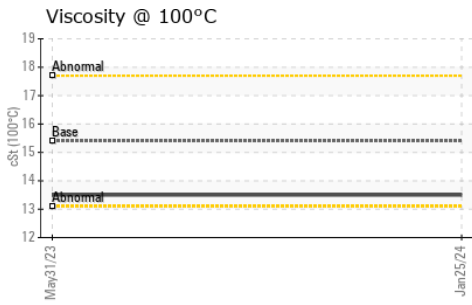
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	10	---
Potassium	ppm	ASTM D5185(m)	>20	2	4	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	5.0	5.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	19.9	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	4	---
Boron	ppm	ASTM D5185(m)	1	19	38	---
Barium	ppm	ASTM D5185(m)	1	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	1	52	50	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)	10	646	394	---
Calcium	ppm	ASTM D5185(m)	3032	1500	2026	---
Phosphorus	ppm	ASTM D5185(m)	1054	988	1095	---
Zinc	ppm	ASTM D5185(m)	1332	1095	1185	---
Sulfur	ppm	ASTM D5185(m)	3985	2920	2968	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.3	14.6	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.5	13.5	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0849158 **Received** : 01 Mar 2024
Lab Number : 02619243 **Tested** : 01 Mar 2024
Unique Number : 5736353 **Diagnosed** : 01 Mar 2024 - Wes Davis
Test Package : MOB 1

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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.