

Area
[1244814]
Machine Id
713033
Component
Diesel Engine
Fluid
PETRO CANADA 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0113082	GFL0096685	---
Sample Date		Client Info		25 Mar 2024	08 Nov 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				MARGINAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	85	37	---
Chromium	ppm	ASTM D5185(m)	>20	2	1	---
Nickel	ppm	ASTM D5185(m)	>4	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	3	3	---
Lead	ppm	ASTM D5185(m)	>40	0	<1	---
Copper	ppm	ASTM D5185(m)	>330	4	10	---
Tin	ppm	ASTM D5185(m)	>15	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

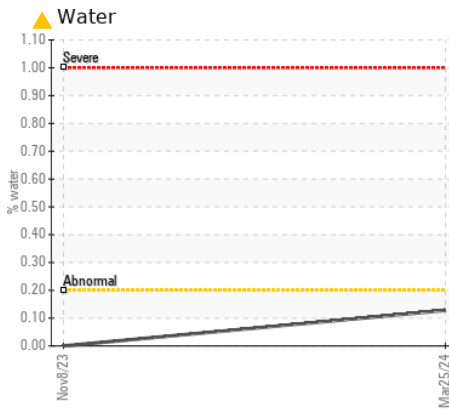
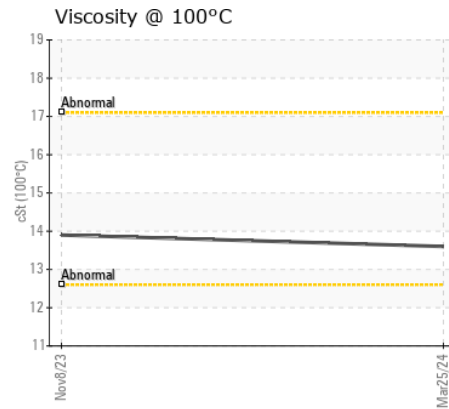
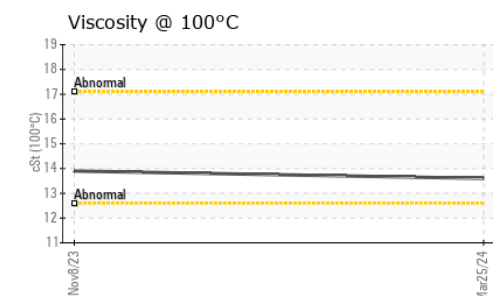
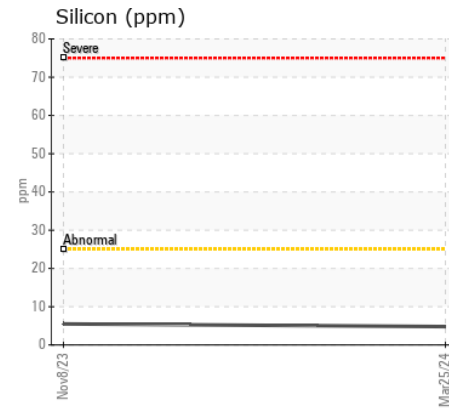
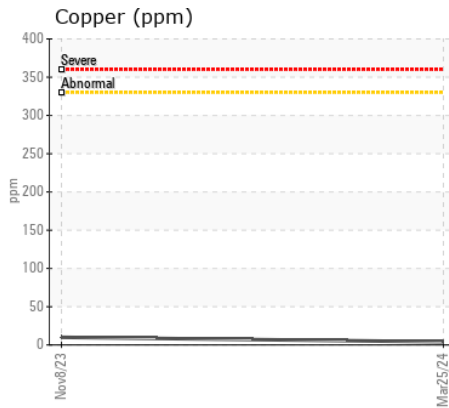
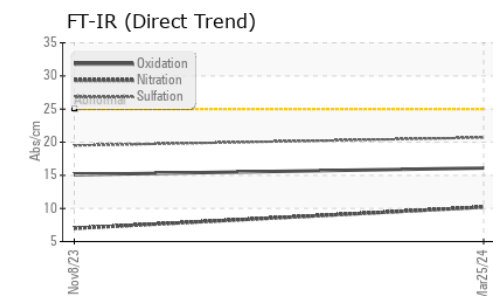
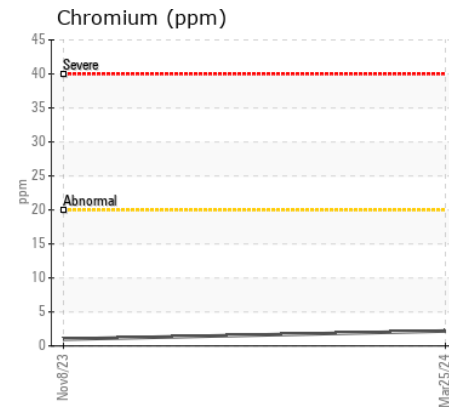
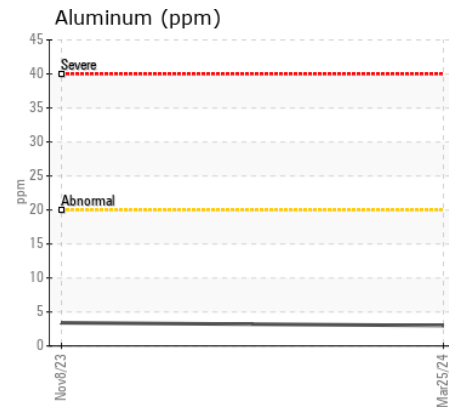
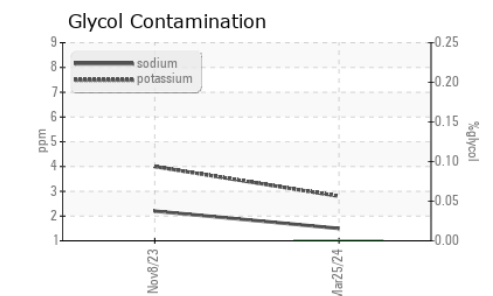
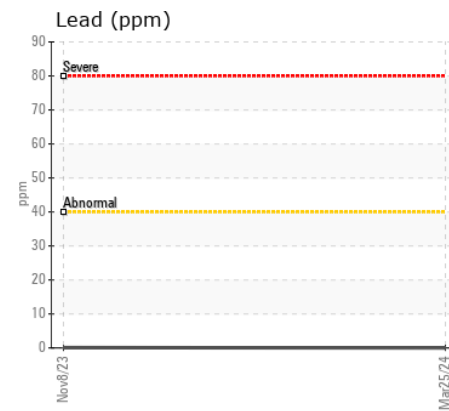
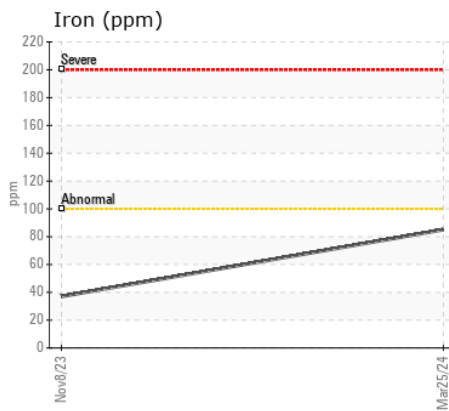
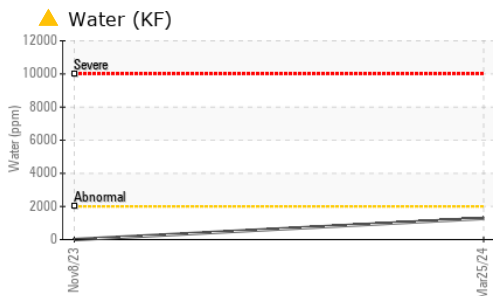
There is a trace of moisture present in the oil. Test for glycol is negative.

Silicon	ppm	ASTM D5185(m)	>25	5	6	---
Potassium	ppm	ASTM D5185(m)	>20	3	4	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water	%	ASTM D6304*	>0.2	▲ 0.128	---	---
ppm Water	ppm	ASTM D6304*	>2000	▲ 1280	---	---
Glycol	%	ASTM D7922*		0.0	NEG	---
Soot %	%	ASTM D7844*	>3	0.9	0.4	---
Nitration	Abs/cm	ASTM D7624*	>20	10.2	7.0	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.7	19.5	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	▲ .2%	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		2	2	---
Boron	ppm	ASTM D5185(m)		5	7	---
Barium	ppm	ASTM D5185(m)		0	<1	---
Molybdenum	ppm	ASTM D5185(m)		59	57	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)		936	900	---
Calcium	ppm	ASTM D5185(m)		1029	1065	---
Phosphorus	ppm	ASTM D5185(m)		949	931	---
Zinc	ppm	ASTM D5185(m)		1140	1136	---
Sulfur	ppm	ASTM D5185(m)		2350	2433	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.1	15.1	---
Visc @ 100°C	cSt	ASTM D7279(m)		13.6	13.9	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113082
Lab Number : 02632503
Unique Number : 5773656
Test Package : MOB 1 (Additional Tests: Glycol, KF, Visual)
Received : 01 May 2024
Tested : 01 May 2024
Diagnosed : 01 May 2024 - Kevin Marson

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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.