

Area
(BK14469)
Machine Id
419007
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		GFL0088353	GFL0088348	---
Sample Date		Client Info		26 Mar 2024	10 Oct 2023	---
Machine Age	hrs	Client Info		5578	5203	---
Oil Age	hrs	Client Info		600	600	---
Filter Age	hrs	Client Info		600	600	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	6	8	---
Chromium	ppm	ASTM D5185(m)	>20	0	<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	4	---
Lead	ppm	ASTM D5185(m)	>40	0	<1	---
Copper	ppm	ASTM D5185(m)	>330	1	2	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

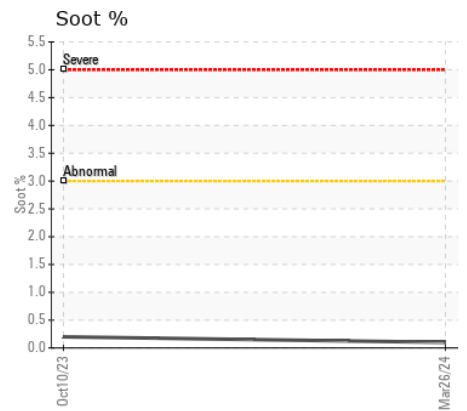
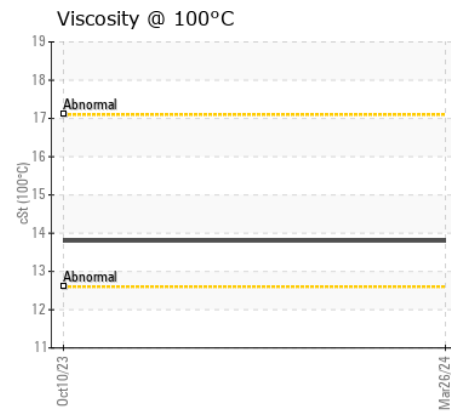
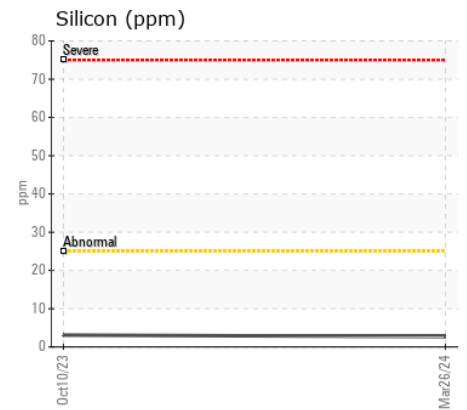
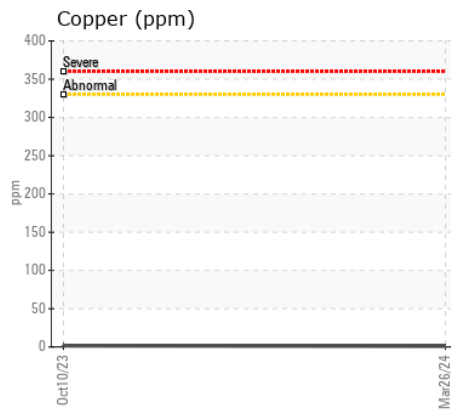
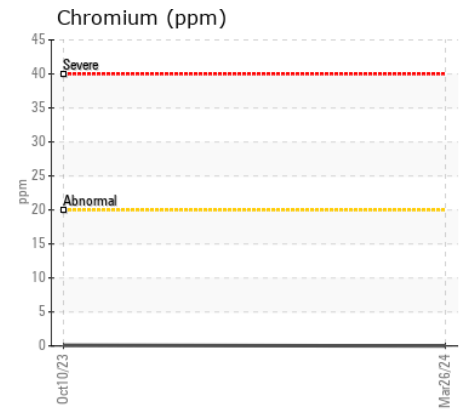
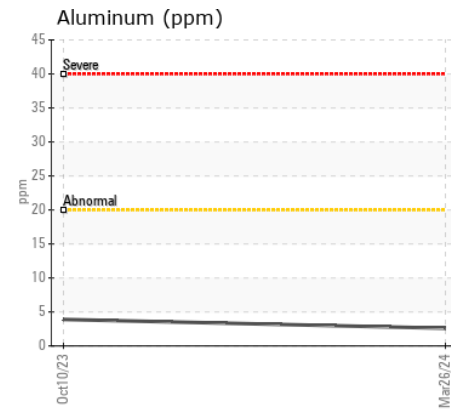
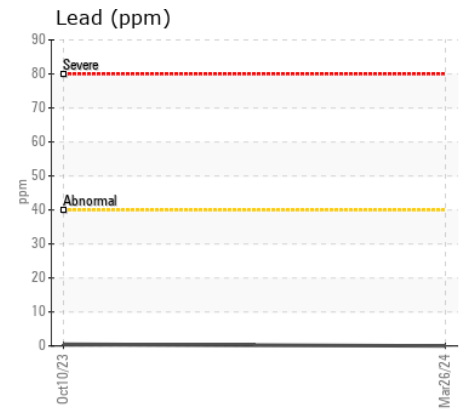
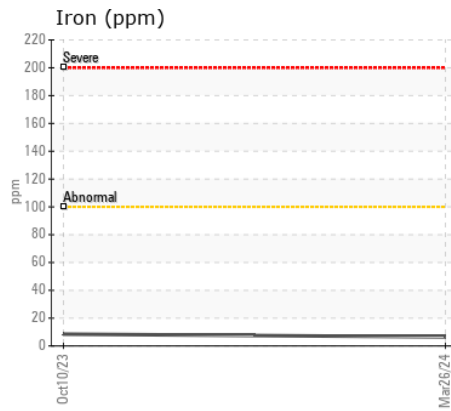
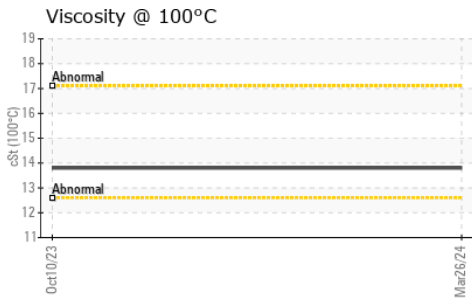
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	3	---
Potassium	ppm	ASTM D5185(m)	>20	3	5	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0.1	0.2	---
Nitration	Abs/cm	ASTM D7624*	>20	7.9	8.4	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.8	20.0	---
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	2	---
Boron	ppm	ASTM D5185(m)		2	6	---
Barium	ppm	ASTM D5185(m)		0	<1	---
Molybdenum	ppm	ASTM D5185(m)		59	61	---
Manganese	ppm	ASTM D5185(m)		0	0	---
Magnesium	ppm	ASTM D5185(m)		981	979	---
Calcium	ppm	ASTM D5185(m)		1079	1135	---
Phosphorus	ppm	ASTM D5185(m)		982	985	---
Zinc	ppm	ASTM D5185(m)		1195	1220	---
Sulfur	ppm	ASTM D5185(m)		2468	2380	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.5	15.4	---
Visc @ 100°C	cSt	ASTM D7279(m)		13.8	13.8	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0088353 **Received** : 02 Apr 2024
Lab Number : 02625985 **Tested** : 02 Apr 2024
Unique Number : 5759117 **Diagnosed** : 02 Apr 2024 - Wes Davis
Test Package : MOB 1

GFL Environmental - 508
 1926 hWY 17 West
 North Bay, ON
 CA P1B 2H3
 Contact: Angele Labonte
 angele.labonte@gflenv.com
 T: (705)472-1768
 F:

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.