



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
GFL218
Machine Id
833046
Component
Natural Gas Engine
Fluid
NOT GIVEN (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0107871	GFL0097014	---
Sample Date		Client Info		02 Jan 2024	17 Oct 2023	---
Machine Age	kms	Client Info		10649	6163	---
Oil Age	kms	Client Info		0	0	---
Filter Age	kms	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	12	35	---
Chromium	ppm	ASTM D5185(m)	>4	<1	0	---
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>9	2	4	---
Lead	ppm	ASTM D5185(m)	>30	<1	2	---
Copper	ppm	ASTM D5185(m)	>35	2	15	---
Tin	ppm	ASTM D5185(m)	>4	<1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

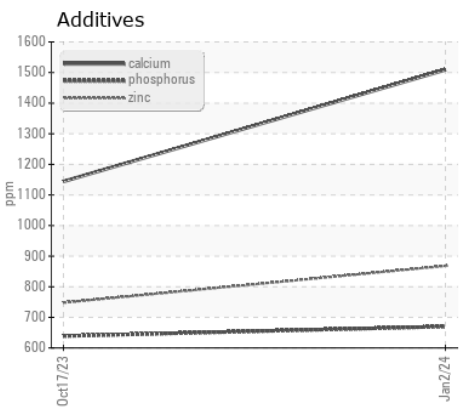
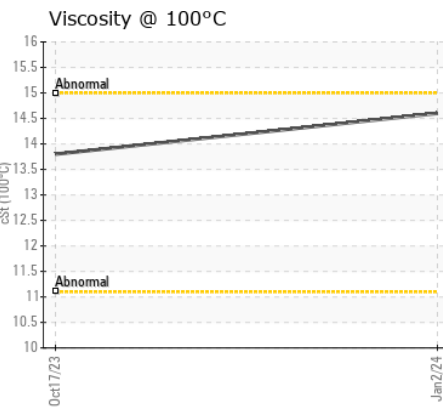
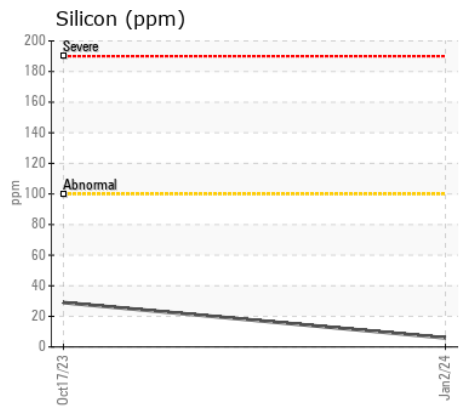
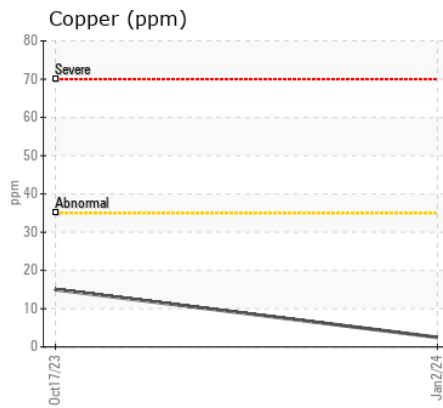
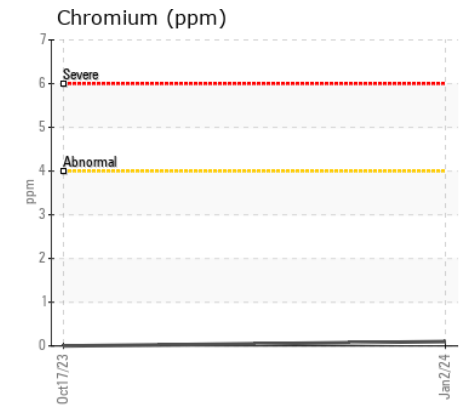
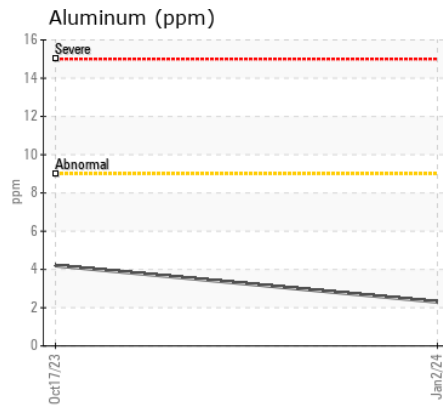
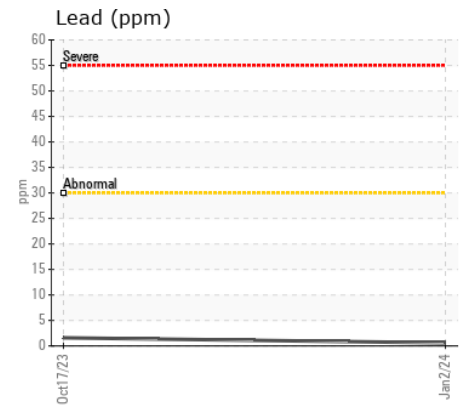
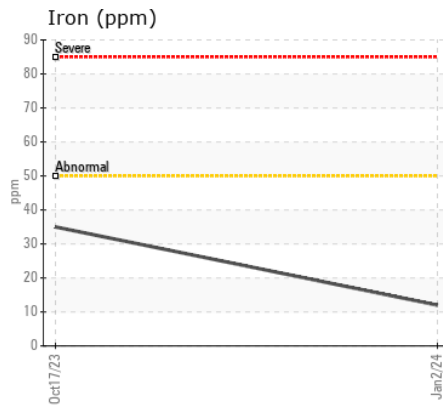
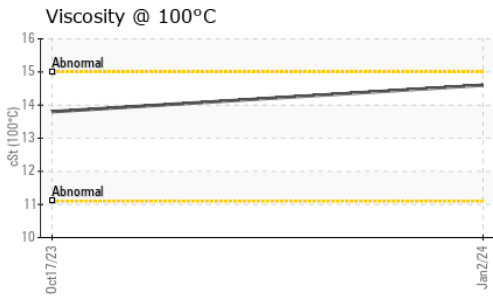
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	6	29	---
Potassium	ppm	ASTM D5185(m)	>20	1	13	---
Water		WC Method	>0.1	NEG	NEG	---
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	9.8	7.4	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	21.1	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		7	4	---
Boron	ppm	ASTM D5185(m)		8	16	---
Barium	ppm	ASTM D5185(m)		0	2	---
Molybdenum	ppm	ASTM D5185(m)		53	87	---
Manganese	ppm	ASTM D5185(m)		<1	8	---
Magnesium	ppm	ASTM D5185(m)		536	587	---
Calcium	ppm	ASTM D5185(m)		1509	1144	---
Phosphorus	ppm	ASTM D5185(m)		670	639	---
Zinc	ppm	ASTM D5185(m)		868	748	---
Sulfur	ppm	ASTM D5185(m)		2080	2166	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.0	15.6	---
Visc @ 100°C	cSt	ASTM D7279(m)		14.6	13.8	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 225 - COT(D2)**
Sample No. : GFL0107871 **Received** : 09 Jan 2024
Lab Number : 02607393 **Diagnosed** : 09 Jan 2024
Unique Number : 5708479 **Diagnostician** : Wes Davis
Test Package : MOB 1

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.

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