



OIL ANALYSIS REPORT

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



Area  
**GFL218**  
Machine Id  
**833056**  
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		<b>GFL0120084</b>	GFL0097017	---
Sample Date		Client Info		<b>29 Apr 2024</b>	18 Oct 2023	---
Machine Age	kms	Client Info		<b>12159</b>	4608	---
Oil Age	kms	Client Info		<b>4608</b>	0	---
Filter Age	kms	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	<b>10</b>	37	---
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	2	---
Aluminum	ppm	ASTM D5185(m)	>9	<b>1</b>	4	---
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	2	---
Copper	ppm	ASTM D5185(m)	>35	<b>2</b>	19	---
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

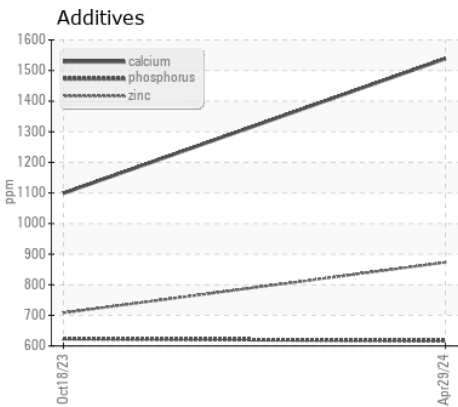
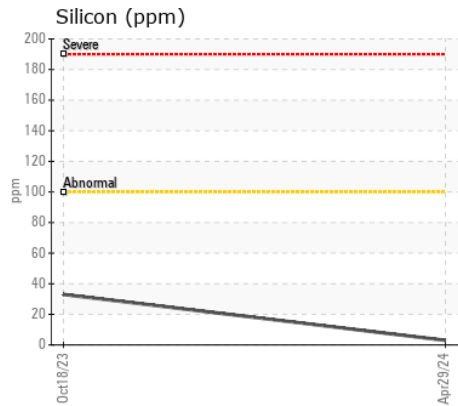
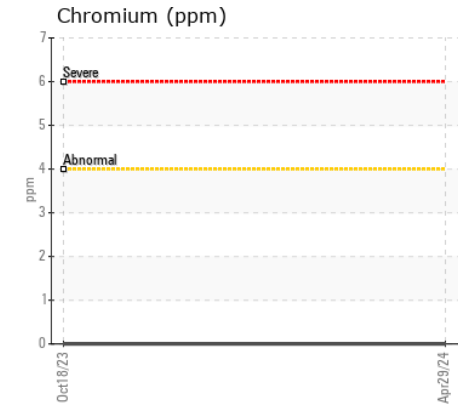
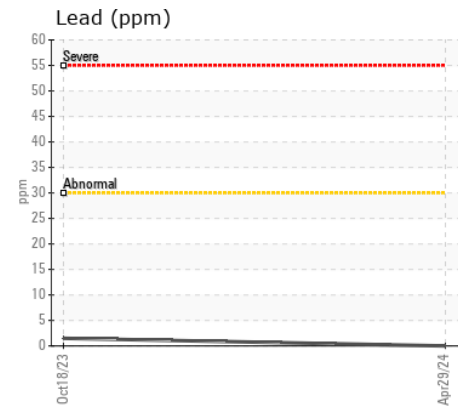
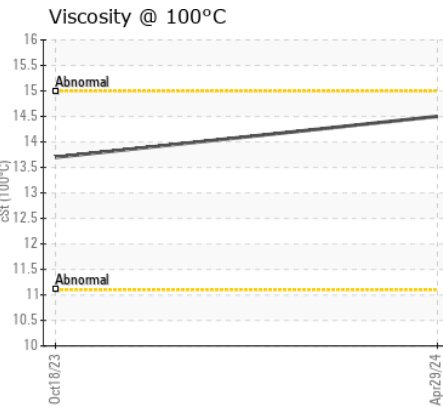
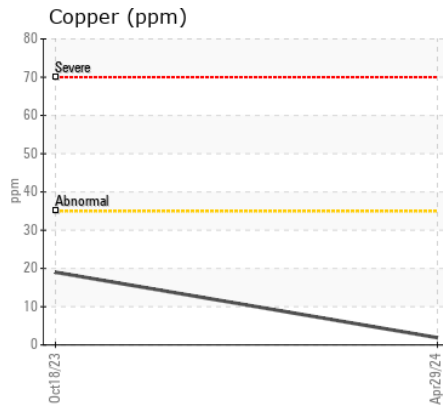
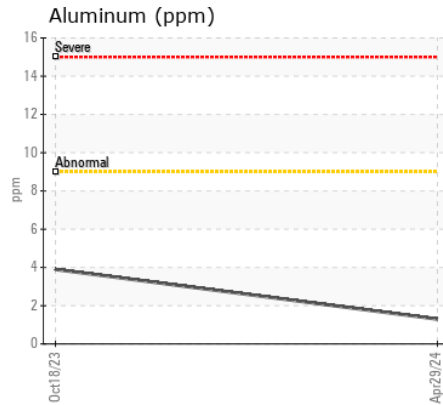
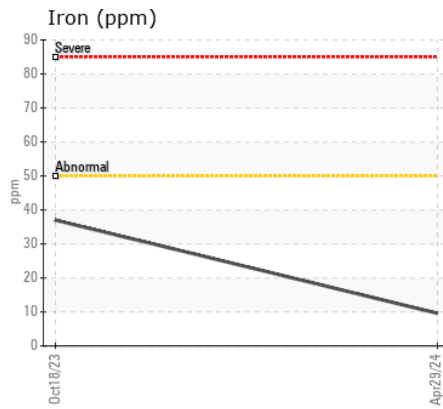
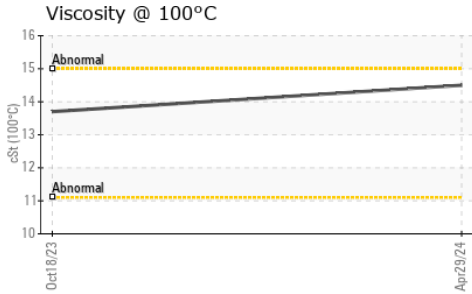
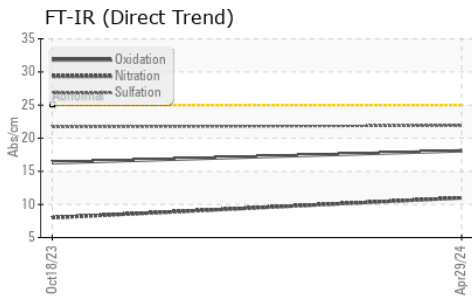
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>3</b>	33	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Soot %	%	ASTM D7844*		<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.0</b>	8.0	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.9</b>	21.7	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)		<b>7</b>	3	---
Boron	ppm	ASTM D5185(m)		<b>7</b>	13	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	3	---
Molybdenum	ppm	ASTM D5185(m)		<b>51</b>	92	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	10	---
Magnesium	ppm	ASTM D5185(m)		<b>548</b>	599	---
Calcium	ppm	ASTM D5185(m)		<b>1539</b>	1099	---
Phosphorus	ppm	ASTM D5185(m)		<b>617</b>	624	---
Zinc	ppm	ASTM D5185(m)		<b>873</b>	708	---
Sulfur	ppm	ASTM D5185(m)		<b>1907</b>	2172	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.1</b>	16.3	---
Visc @ 100°C	cSt	ASTM D7279(m)		<b>14.5</b>	13.7	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0120084  
**Lab Number** : 02632743  
**Unique Number** : 5773896  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**GFL Environmental - 225 - COT(D2)**  
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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.