



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



Area  
**GFL218**  
Machine Id  
**833034**  
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>GFL0113172</b>	GFL0101092	---
Sample Date		Client Info		<b>28 Feb 2024</b>	20 Nov 2023	---
Machine Age	kms	Client Info		<b>11181</b>	6111	---
Oil Age	kms	Client Info		<b>0</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>11</b>	31	---
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	---
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>	<1	---
Aluminum	ppm	ASTM D5185(m)	>9	<b>2</b>	4	---
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	2	---
Copper	ppm	ASTM D5185(m)	>35	<b>3</b>	16	---
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---

**CONTAMINATION**

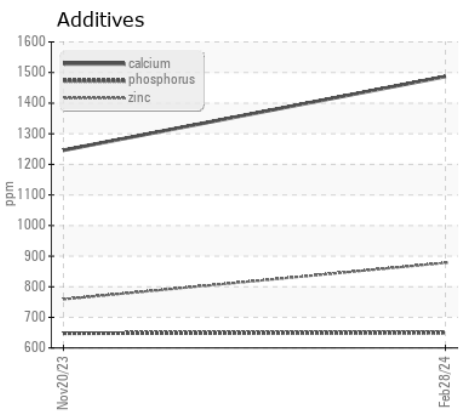
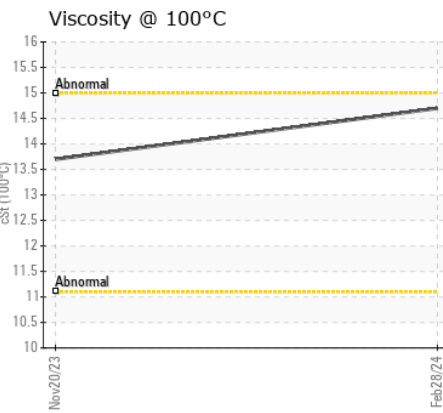
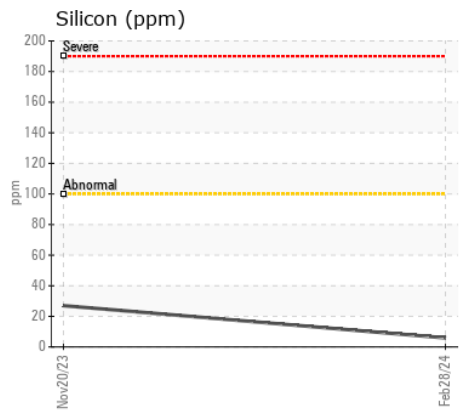
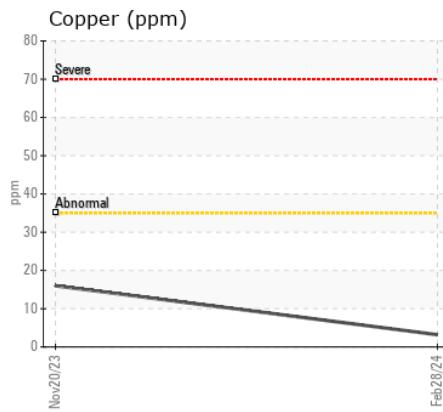
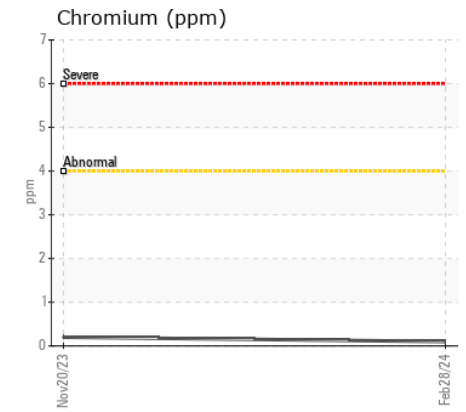
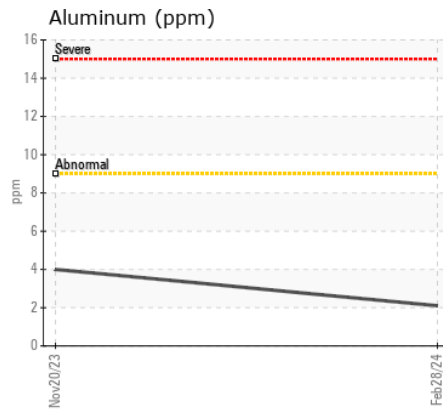
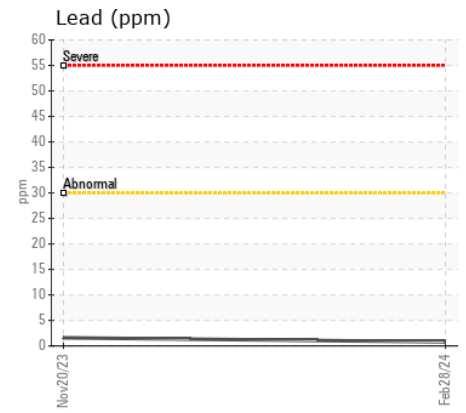
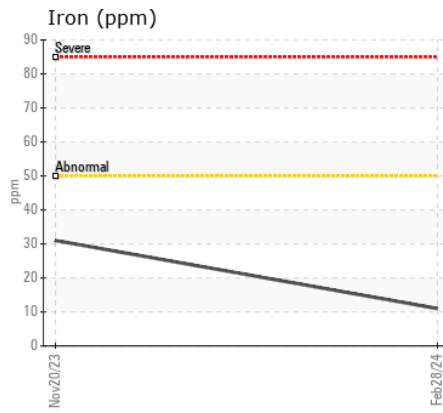
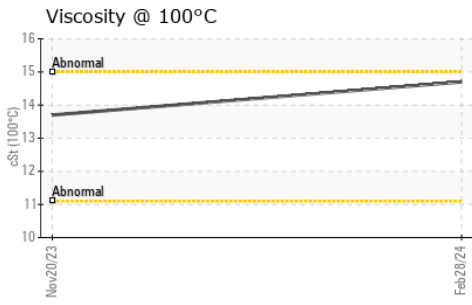
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>6</b>	27	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Soot %	%	ASTM D7844*		<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.9</b>	9.4	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.4</b>	22.0	---
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>6</b>	3	---
Boron	ppm	ASTM D5185(m)		<b>7</b>	10	---
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	3	---
Molybdenum	ppm	ASTM D5185(m)		<b>53</b>	98	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	10	---
Magnesium	ppm	ASTM D5185(m)		<b>554</b>	656	---
Calcium	ppm	ASTM D5185(m)		<b>1487</b>	1246	---
Phosphorus	ppm	ASTM D5185(m)		<b>650</b>	648	---
Zinc	ppm	ASTM D5185(m)		<b>878</b>	759	---
Sulfur	ppm	ASTM D5185(m)		<b>2070</b>	2143	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.6</b>	16.7	---
Visc @ 100°C	cSt	ASTM D7279(m)		<b>14.7</b>	13.7	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0113172  
**Lab Number** : 02619808  
**Unique Number** : 5736918  
**Test Package** : MOB 1

**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.