



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



Area  
**GFL218**  
Machine Id  
**833049**  
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>GFL0120081</b>	GFL0113178	GFL0104521
Sample Date		Client Info		<b>13 May 2024</b>	21 Feb 2024	05 Feb 2024
Machine Age	kms	Client Info		<b>12998</b>	9887	9214
Oil Age	kms	Client Info		<b>9887</b>	0	0
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	<b>7</b>	6	17
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>1</b>	2	2
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>35	<b>&lt;1</b>	<1	3
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

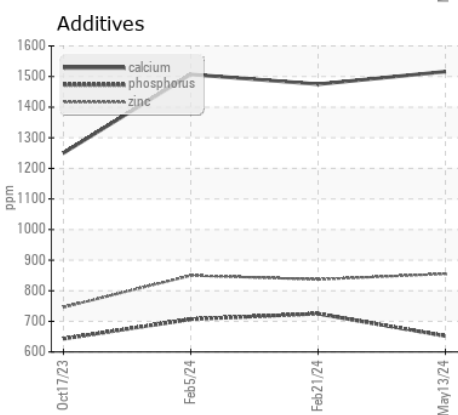
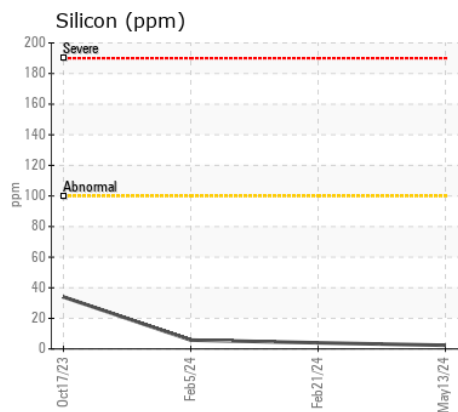
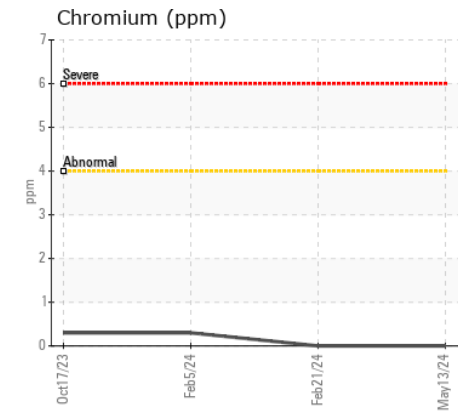
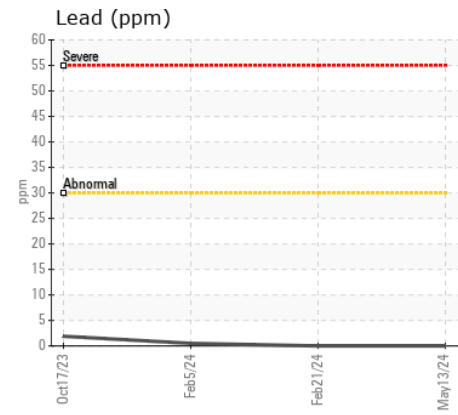
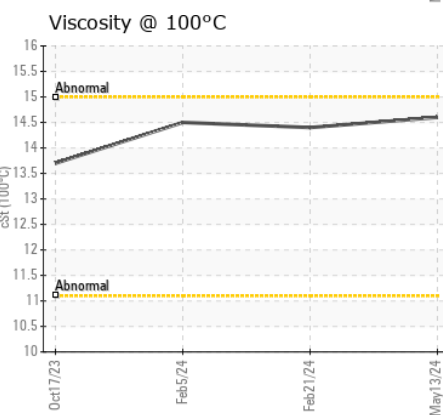
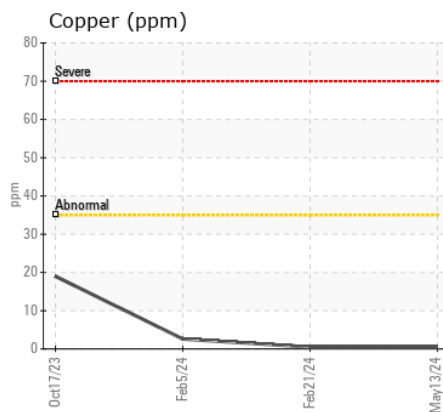
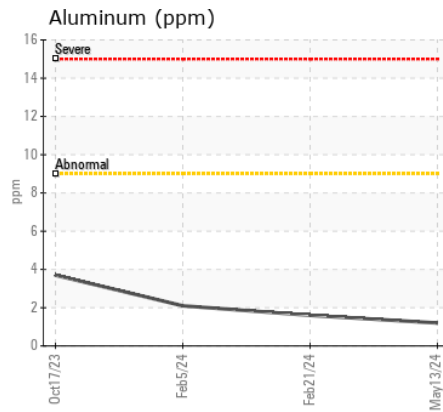
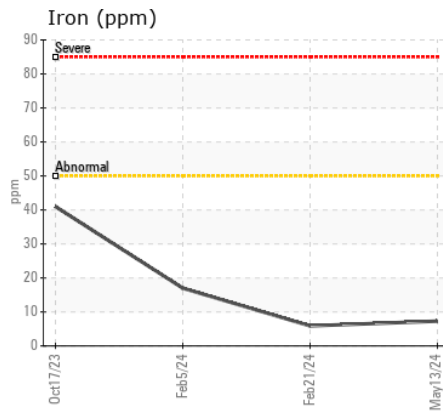
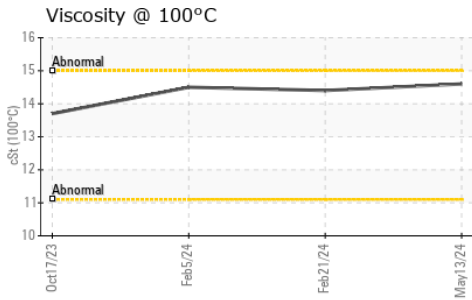
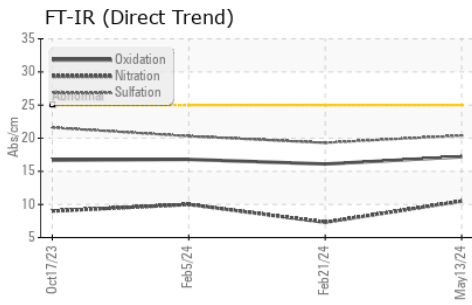
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>2</b>	4	6
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.5</b>	7.3	10.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.4</b>	19.3	20.3
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	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)		<b>6</b>	5	6
Boron	ppm	ASTM D5185(m)		<b>11</b>	33	15
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>50</b>	47	52
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	1
Magnesium	ppm	ASTM D5185(m)		<b>538</b>	550	540
Calcium	ppm	ASTM D5185(m)		<b>1516</b>	1475	1507
Phosphorus	ppm	ASTM D5185(m)		<b>652</b>	725	707
Zinc	ppm	ASTM D5185(m)		<b>855</b>	837	850
Sulfur	ppm	ASTM D5185(m)		<b>1923</b>	2110	2052
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.2</b>	16.1	16.8
Visc @ 100°C	cSt	ASTM D7279(m)		<b>14.6</b>	14.4	14.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0120081  
**Lab Number** : 02635950  
**Unique Number** : 5785112  
**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.