



Machine Id  
**731006**  
Component  
**Natural Gas Engine**  
Fluid  
**CASTROL 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0100741</b>	GFL0079583	GFL0079557
Sample Date		Client Info		<b>12 Apr 2024</b>	15 Sep 2023	04 May 2023
Machine Age	hrs	Client Info		<b>141812</b>	121436	103968
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>17</b>	13	18
Chromium	ppm	ASTM D5185(m)	>4	<b>1</b>	<1	2
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>30	<b>3</b>	<1	4
Copper	ppm	ASTM D5185(m)	>35	<b>2</b>	1	2
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

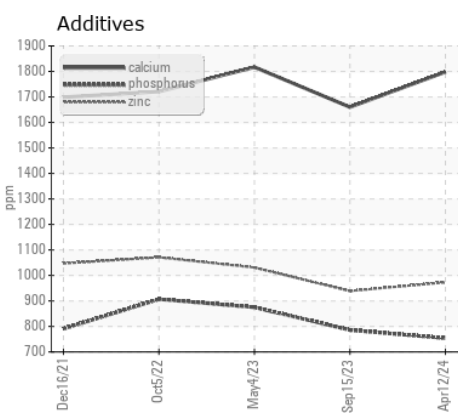
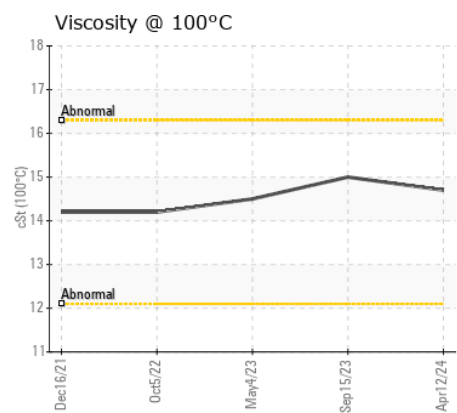
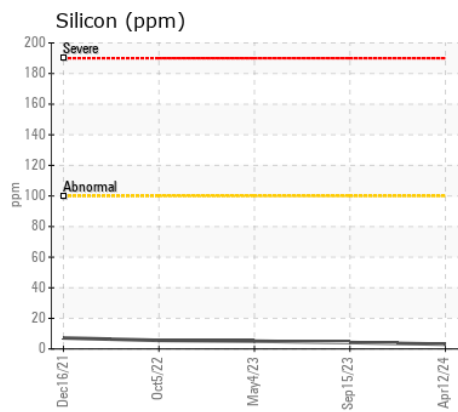
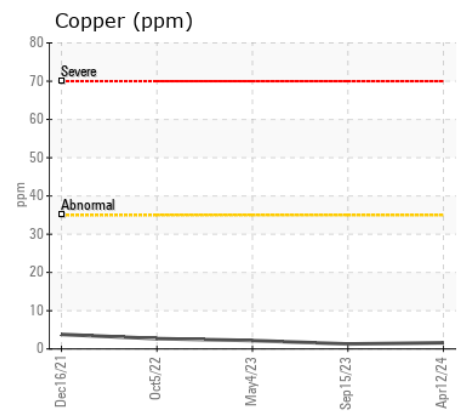
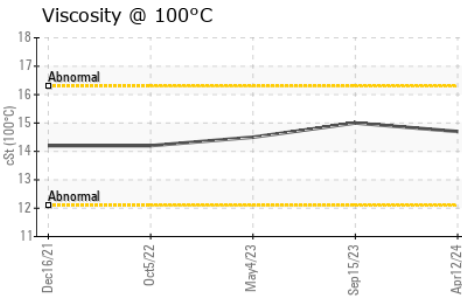
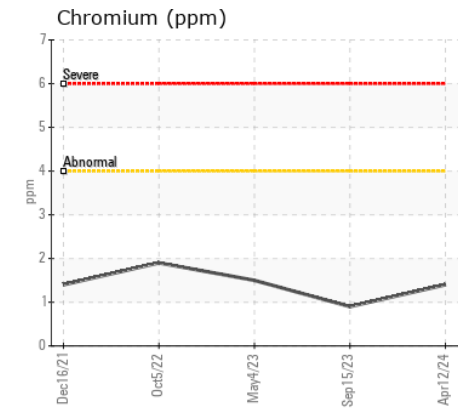
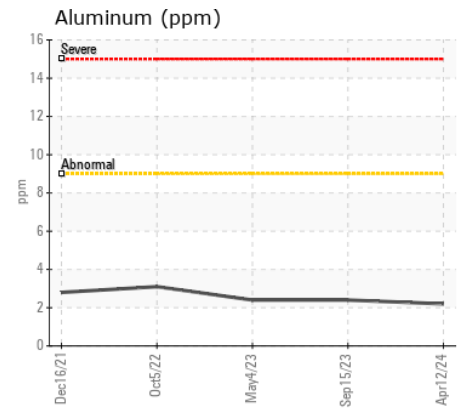
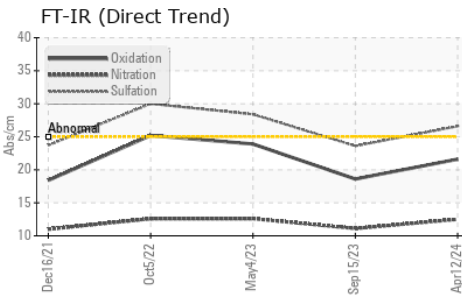
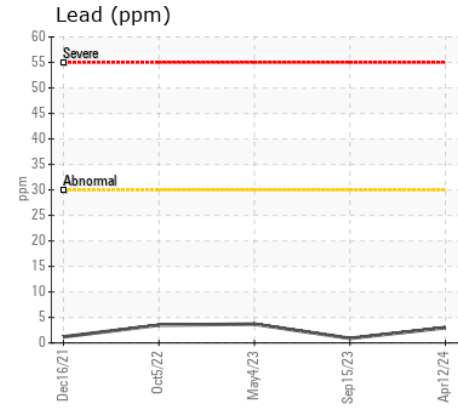
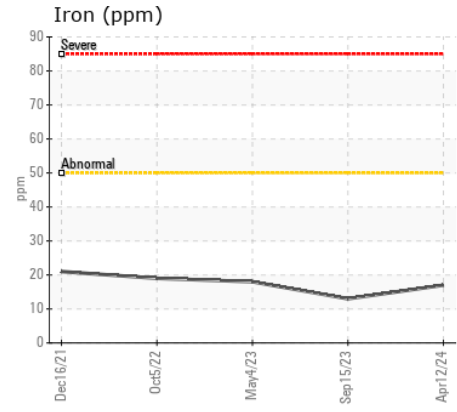
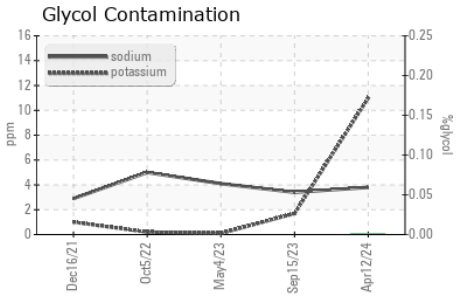
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>3</b>	4	5
Potassium	ppm	ASTM D5185(m)	>20	<b>11</b>	2	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol	%	ASTM D7922*		<b>0.0</b>	---	---
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.5</b>	11.1	12.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>26.6</b>	23.6	28.4
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)	>406	<b>4</b>	3	4
Boron	ppm	ASTM D5185(m)		<b>7</b>	10	5
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>56</b>	54	62
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185(m)		<b>572</b>	555	666
Calcium	ppm	ASTM D5185(m)		<b>1798</b>	1660	1817
Phosphorus	ppm	ASTM D5185(m)		<b>754</b>	786	875
Zinc	ppm	ASTM D5185(m)		<b>973</b>	939	1031
Sulfur	ppm	ASTM D5185(m)		<b>2018</b>	2025	2191
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>21.6</b>	18.6	23.9
Visc @ 100°C	cSt	ASTM D7279(m)		<b>14.7</b>	15.0	14.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0100741  
**Lab Number** : 02629129  
**Unique Number** : 5762261  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

**GFL Environmental - 277 - Niagara Regional**  
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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.