



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

Machine Id  
**731031**  
 Component  
**Natural Gas Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0119232</b>	GFL0066652	GFL0042090
Sample Date		Client Info		<b>09 May 2024</b>	13 Dec 2022	31 Jan 2022
Machine Age	hrs	Client Info		<b>5196</b>	2425	1213
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>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>4</b>	10	▲ 70
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	2
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	2
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>9	<b>&lt;1</b>	1	4
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	<1	3
Copper	ppm	ASTM D5185(m)	>35	<b>&lt;1</b>	1	17
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	2
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	<1

**CONTAMINATION**

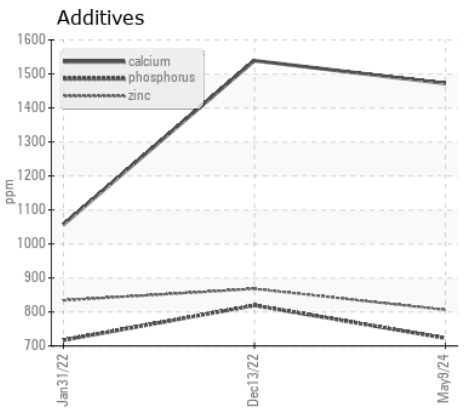
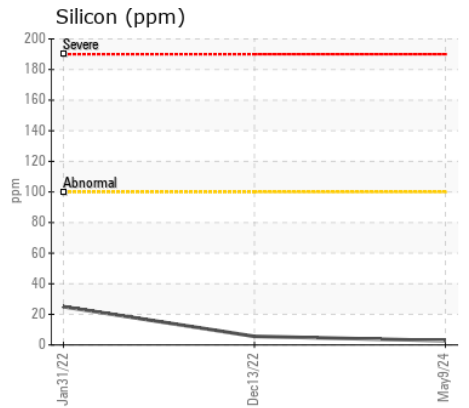
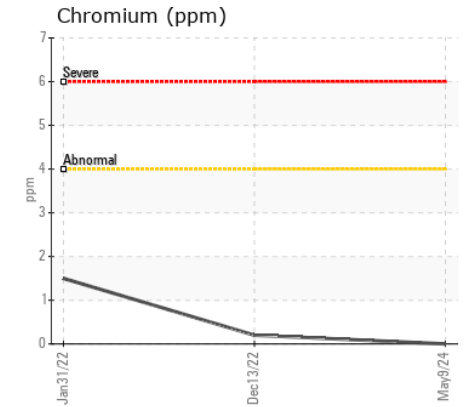
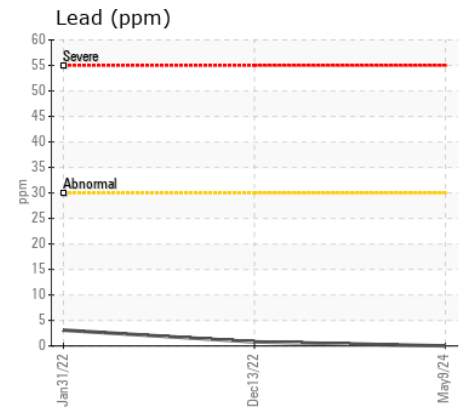
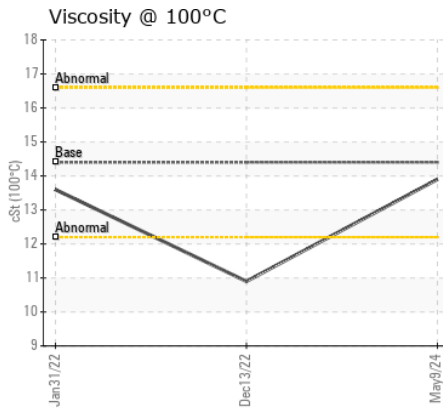
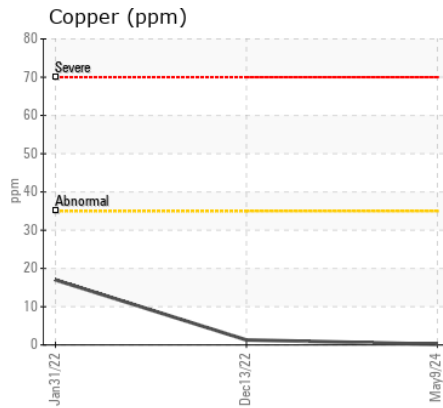
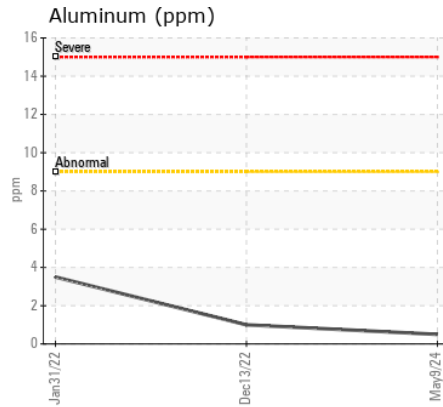
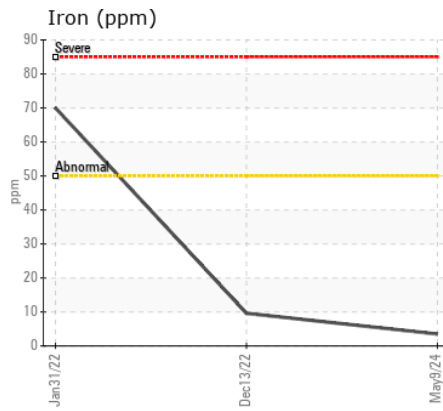
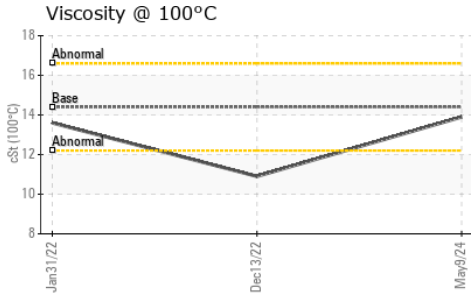
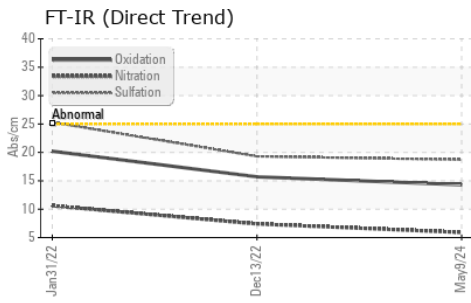
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>3</b>	6	25
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	4
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>5.9</b>	7.4	10.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.7</b>	19.3	25.3
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)	>158	<b>4</b>	6	4
Boron	ppm	ASTM D5185(m)	250	<b>49</b>	39	10
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185(m)	100	<b>51</b>	47	89
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	8
Magnesium	ppm	ASTM D5185(m)	450	<b>518</b>	550	640
Calcium	ppm	ASTM D5185(m)	3000	<b>1472</b>	1539	1057
Phosphorus	ppm	ASTM D5185(m)	1150	<b>723</b>	819	717
Zinc	ppm	ASTM D5185(m)	1350	<b>806</b>	868	834
Sulfur	ppm	ASTM D5185(m)	4250	<b>1981</b>	2116	2005
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.3</b>	15.7	20.2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>13.9</b>	10.9	13.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0119232  
**Lab Number** : 02639806  
**Unique Number** : 5788968  
**Test Package** : MOB 1

**GFL Environmental - 253 - TOR APT**  
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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.

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F: