



Machine Id  
**931027**  
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>GFL0119242</b>	GFL0102925	GFL0087006
Sample Date		Client Info		<b>27 Jun 2024</b>	09 Jan 2024	28 Jun 2023
Machine Age	kms	Client Info		<b>75253</b>	63119	4701
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	Changed	N/A
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>18</b>	42	47
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	2	3
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	2	2
Titanium	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>4</b>	18	24
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	13	15
Copper	ppm	ASTM D5185(m)	>150	<b>&lt;1</b>	2	2
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	1	2
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

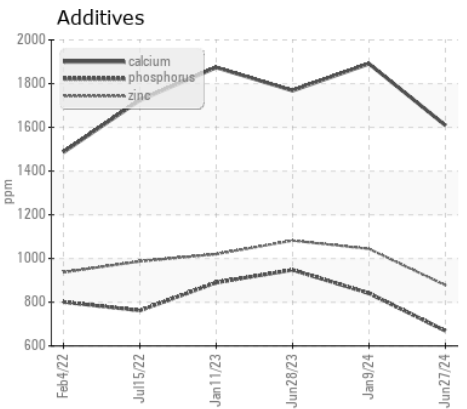
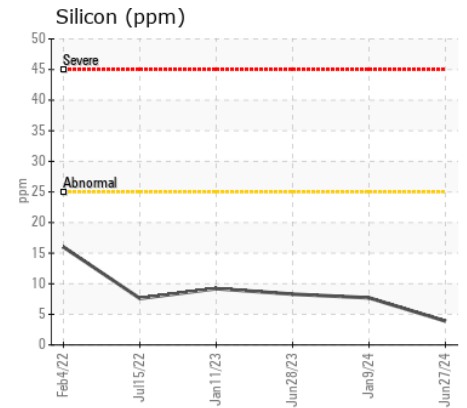
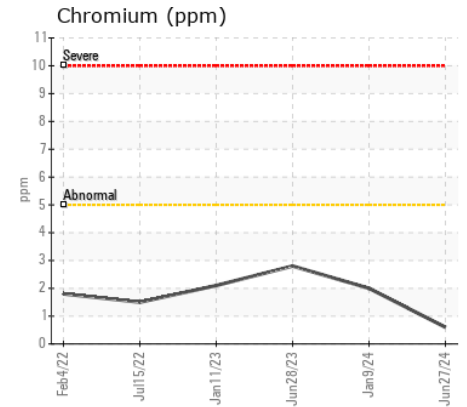
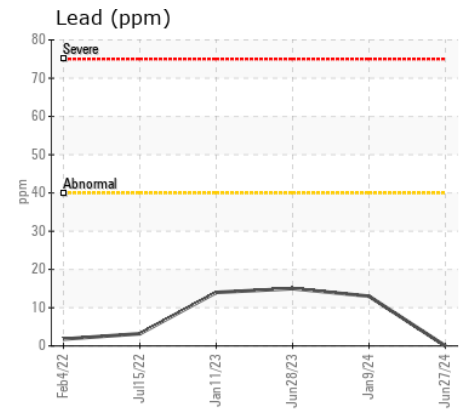
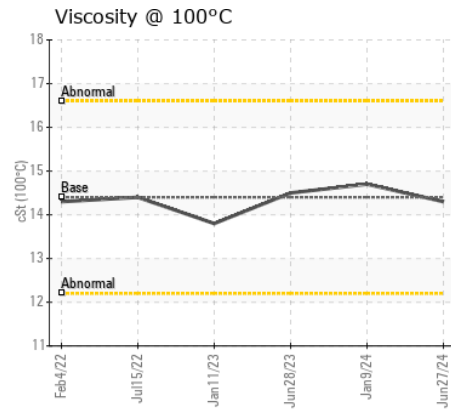
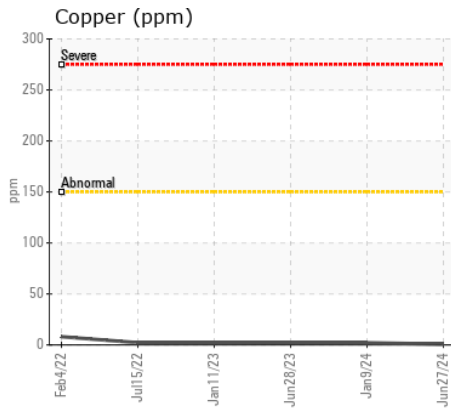
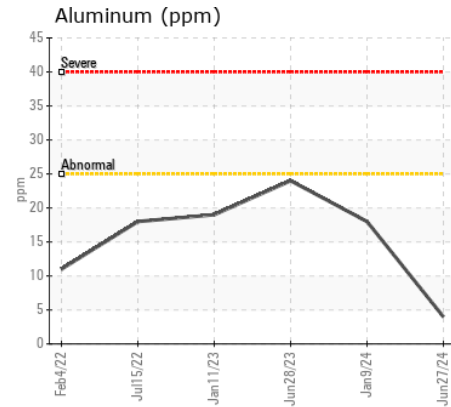
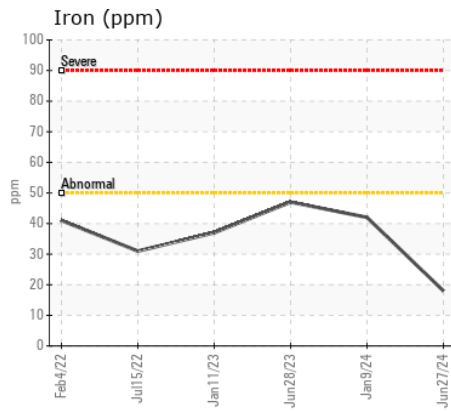
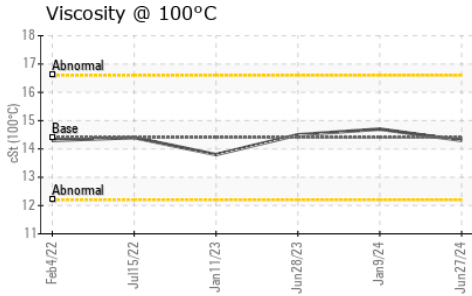
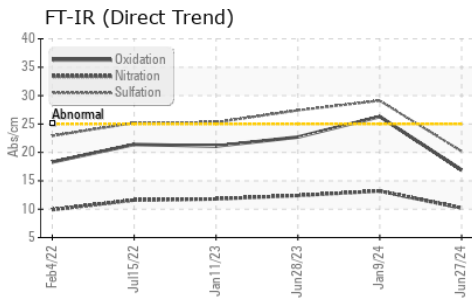
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	8	8
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	10	10
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>---</b>	---	0.0
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.2</b>	13.2	12.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.2</b>	29.1	27.4
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)	>158	<b>7</b>	12	12
Boron	ppm	ASTM D5185(m)	250	<b>14</b>	7	8
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>51</b>	60	64
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185(m)	450	<b>540</b>	654	716
Calcium	ppm	ASTM D5185(m)	3000	<b>1609</b>	1891	1768
Phosphorus	ppm	ASTM D5185(m)	1150	<b>669</b>	841	948
Zinc	ppm	ASTM D5185(m)	1350	<b>878</b>	1044	1082
Sulfur	ppm	ASTM D5185(m)	4250	<b>1934</b>	2090	2094
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.9</b>	26.3	22.7
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>14.3</b>	14.7	14.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0119242  
**Lab Number** : 02645404  
**Unique Number** : 5802943  
**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: