



Machine Id  
**933015**  
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>GFL0112687</b>	GFL0094835	GFL0079547
Sample Date		Client Info		<b>08 Apr 2024</b>	19 Oct 2023	10 May 2023
Machine Age	hrs	Client Info		<b>3566</b>	2382	1254
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	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	SEVERE

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>18</b>	23	9
Chromium	ppm	ASTM D5185(m)	>5	<b>1</b>	2	0
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	1	<1
Titanium	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>18</b>	15	3
Lead	ppm	ASTM D5185(m)	>40	<b>2</b>	2	1
Copper	ppm	ASTM D5185(m)	>150	<b>1</b>	3	2
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

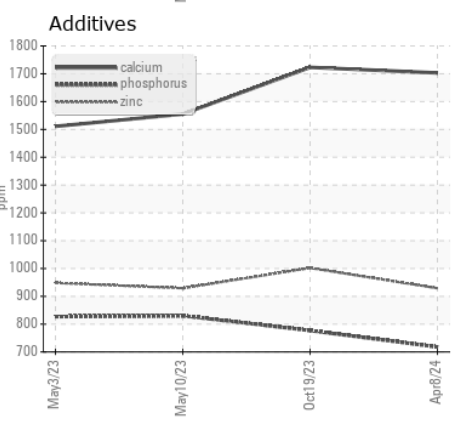
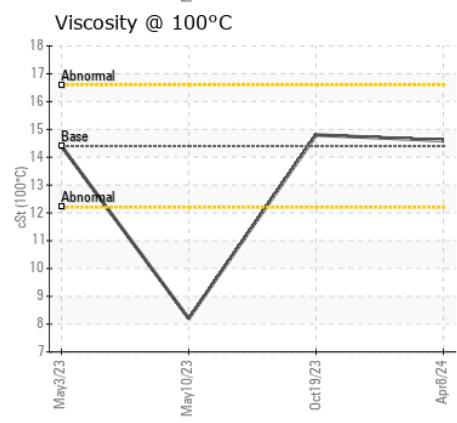
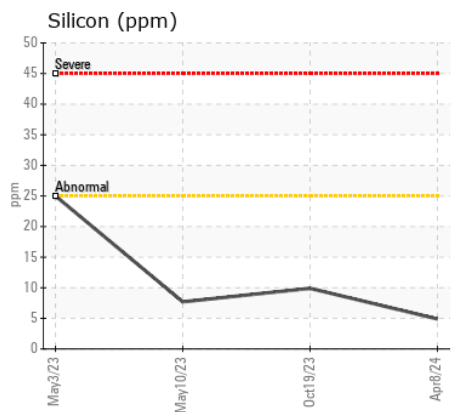
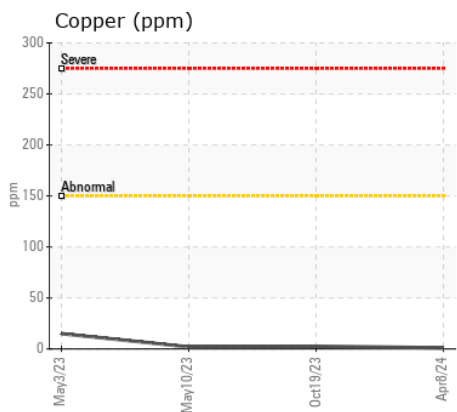
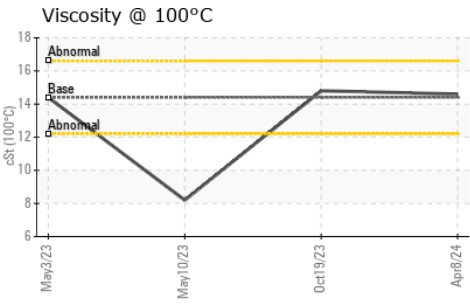
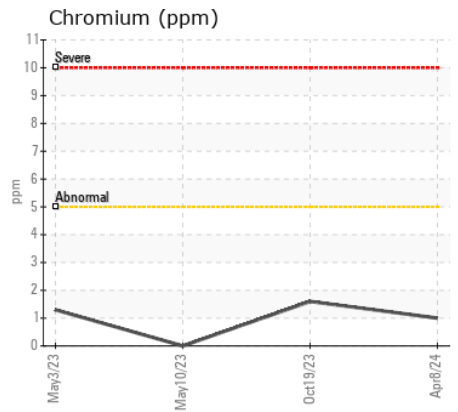
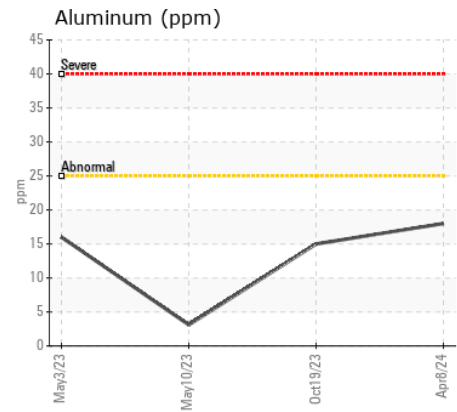
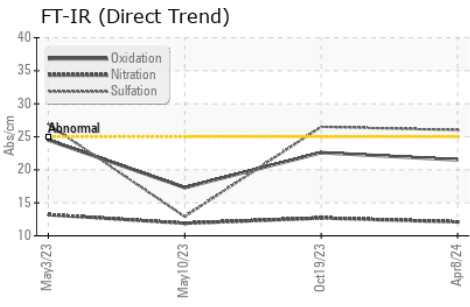
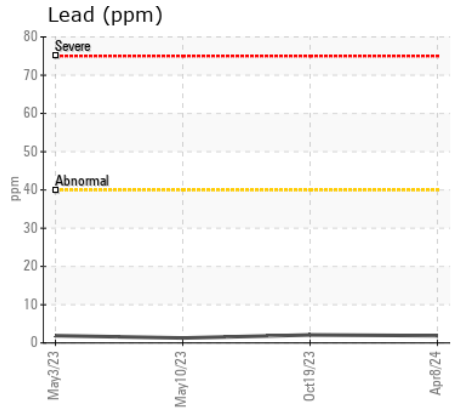
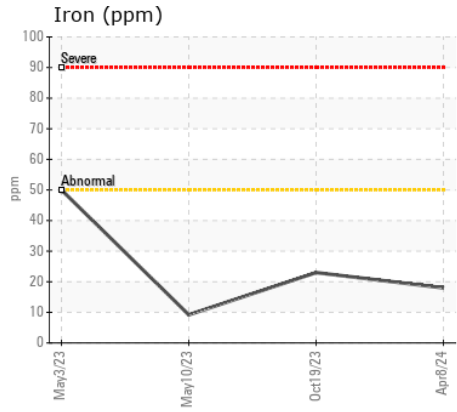
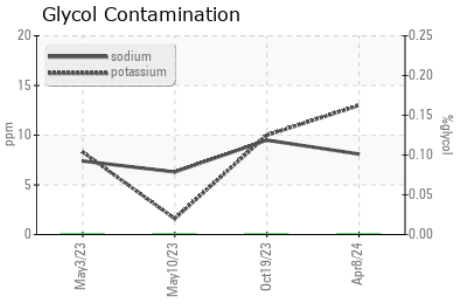
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	10	8
Potassium	ppm	ASTM D5185(m)	>20	<b>13</b>	10	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol	%	ASTM D7922*		<b>0.0</b>	0.0	0.0
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.1</b>	12.7	11.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>26.0</b>	26.5	12.9
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	▲ .5%

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>158	<b>8</b>	10	6
Boron	ppm	ASTM D5185(m)	250	<b>6</b>	7	34
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>55</b>	59	48
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	2
Magnesium	ppm	ASTM D5185(m)	450	<b>588</b>	662	615
Calcium	ppm	ASTM D5185(m)	3000	<b>1703</b>	1723	1555
Phosphorus	ppm	ASTM D5185(m)	1150	<b>718</b>	777	830
Zinc	ppm	ASTM D5185(m)	1350	<b>929</b>	1002	929
Sulfur	ppm	ASTM D5185(m)	4250	<b>1981</b>	2016	2180
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>21.5</b>	22.6	17.3
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>14.6</b>	14.8	8.2



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0112687 **Received** : 19 Apr 2024  
**Lab Number** : 02630063 **Tested** : 19 Apr 2024  
**Unique Number** : 5763195 **Diagnosed** : 19 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

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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.