



Machine Id  
**931020**  
Component  
**Natural Gas Engine**  
Fluid  
**SAE 15W30 (--- LTR)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0112502</b>	GFL0101722	GFL0072865
Sample Date		Client Info		<b>10 May 2024</b>	17 Dec 2023	19 Feb 2023
Machine Age	hrs	Client Info		<b>4965</b>	4039	1992
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	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>33</b>	23	40
Chromium	ppm	ASTM D5185(m)	>5	<b>3</b>	2	3
Nickel	ppm	ASTM D5185(m)	>4	<b>2</b>	1	2
Titanium	ppm	ASTM D5185(m)	>5	<b>0</b>	0	2
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>7</b>	8	15
Lead	ppm	ASTM D5185(m)	>40	<b>15</b>	8	1
Copper	ppm	ASTM D5185(m)	>150	<b>2</b>	3	5
Tin	ppm	ASTM D5185(m)	>4	<b>1</b>	1	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

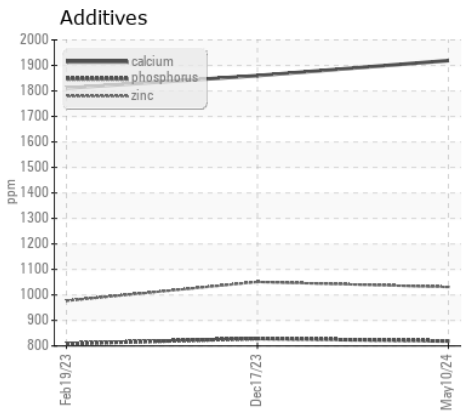
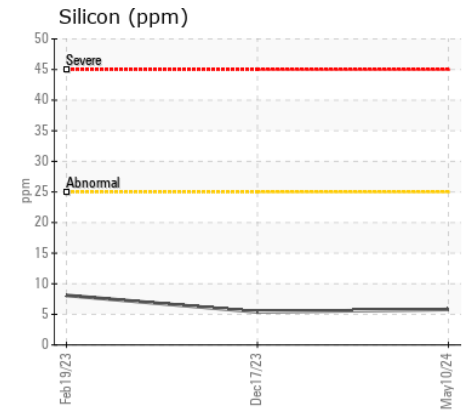
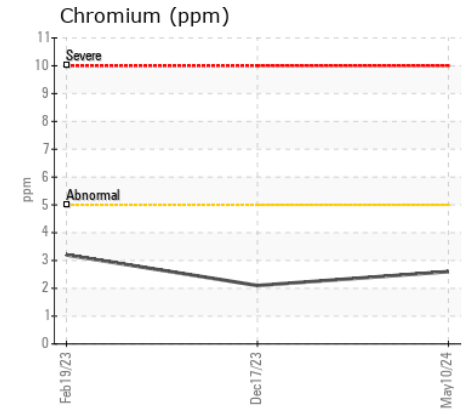
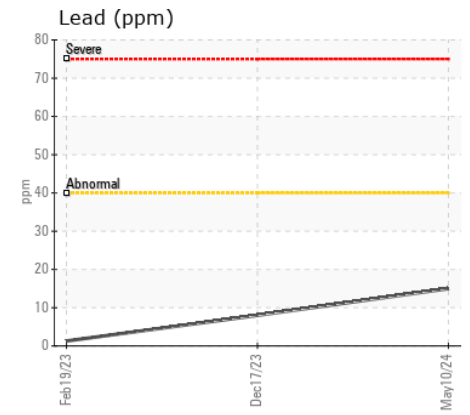
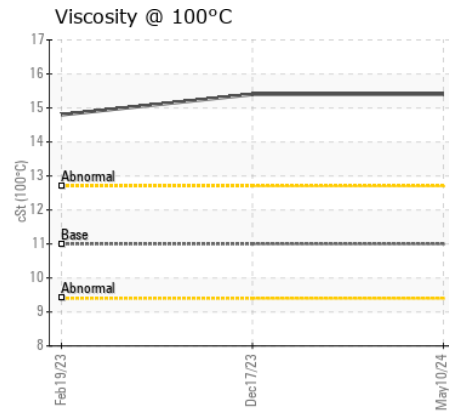
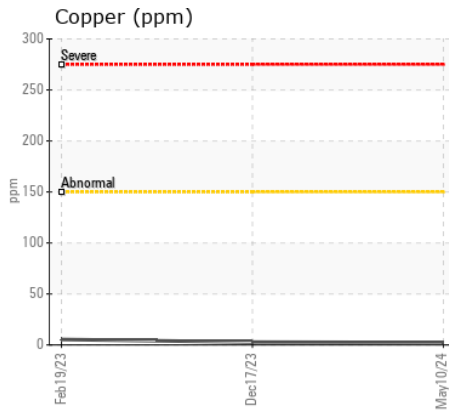
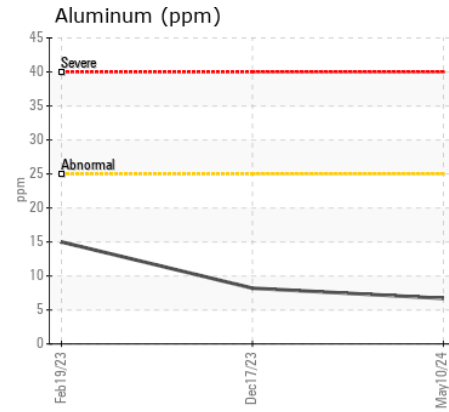
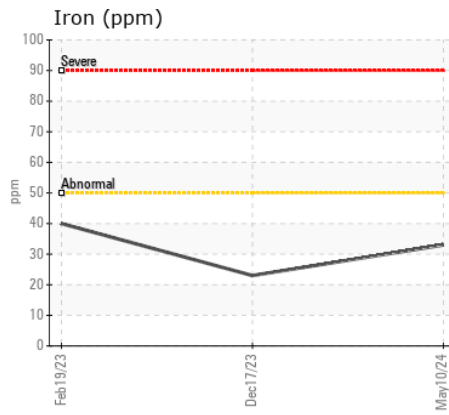
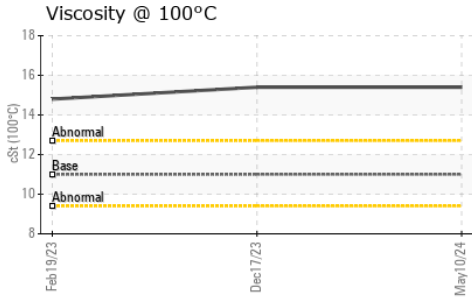
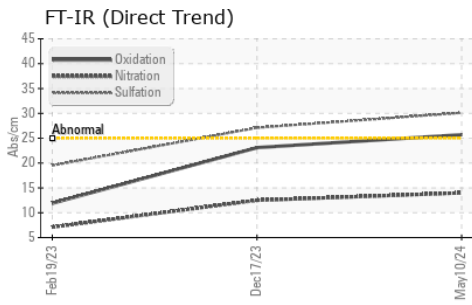
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	5	8
Potassium	ppm	ASTM D5185(m)	>20	<b>10</b>	11	30
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>---</b>	0.0	0.0
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>14.0</b>	12.5	7.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>30.1</b>	27.1	19.5
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

Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>70	<b>12</b>	12	12
Boron	ppm	ASTM D5185(m)		<b>7</b>	8	5
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>63</b>	63	63
Manganese	ppm	ASTM D5185(m)		<b>1</b>	<1	3
Magnesium	ppm	ASTM D5185(m)		<b>682</b>	670	628
Calcium	ppm	ASTM D5185(m)		<b>1919</b>	1860	1811
Phosphorus	ppm	ASTM D5185(m)		<b>819</b>	829	809
Zinc	ppm	ASTM D5185(m)		<b>1031</b>	1051	977
Sulfur	ppm	ASTM D5185(m)		<b>1987</b>	2201	2085
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>25.7</b>	23.1	11.9
Visc @ 100°C	cSt	ASTM D7279(m)	11.0	<b>15.4</b>	15.4	14.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0112502  
**Lab Number** : 02637111  
**Unique Number** : 5786273  
**Test Package** : MOB 1 ( Additional Tests: Visual )

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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.