



Machine Id  
**931008**  
Component  
**Natural Gas Engine**  
Fluid  
**RDL-3647 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

### WEAR

All component wear rates are normal.

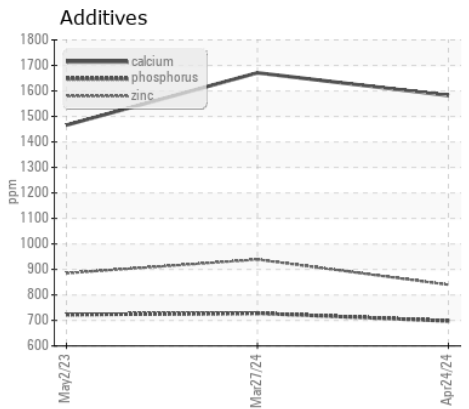
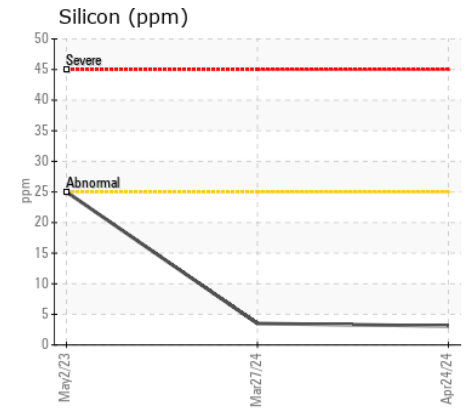
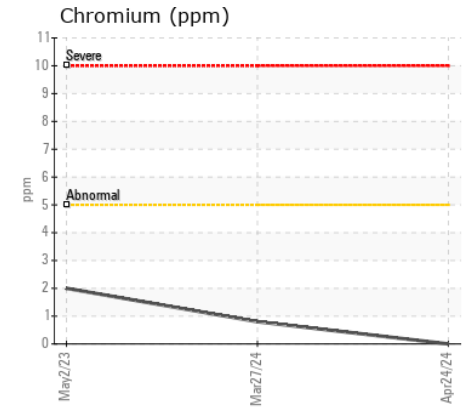
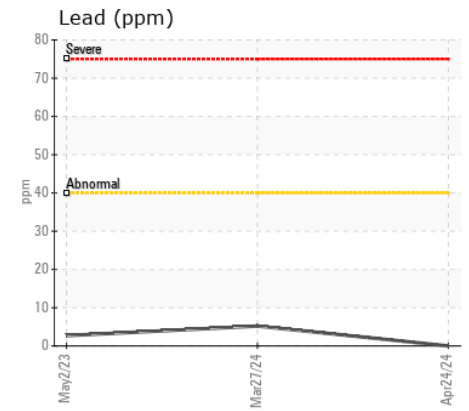
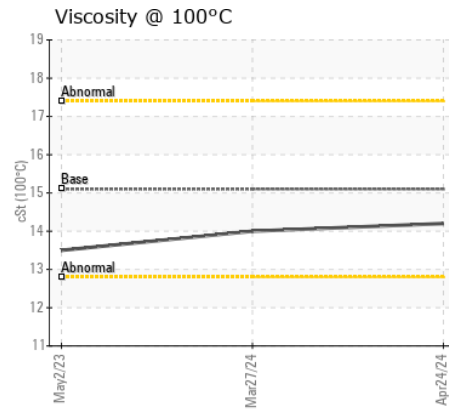
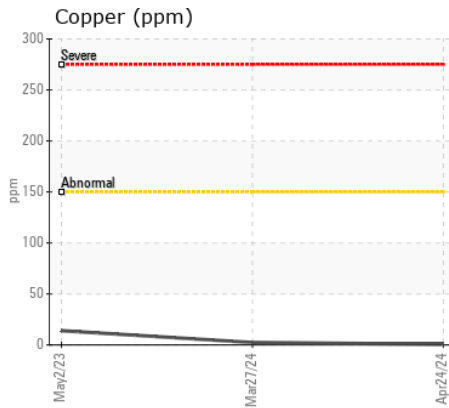
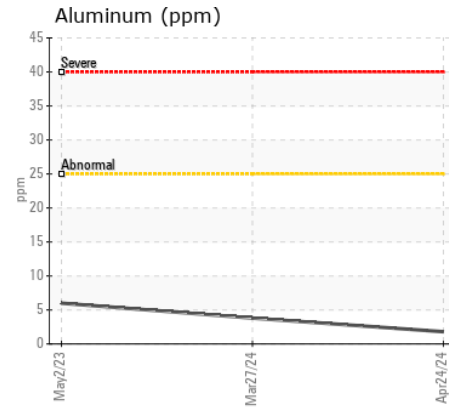
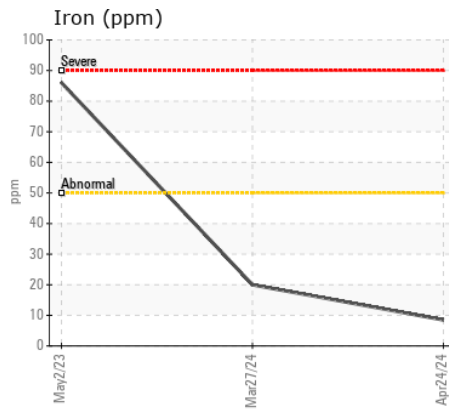
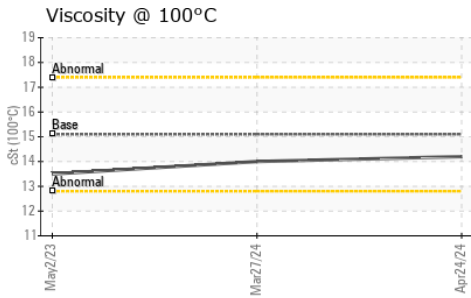
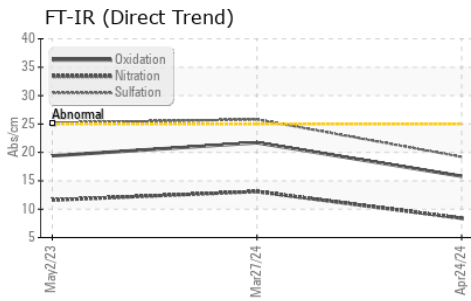
### CONTAMINATION

There is no indication of any contamination in the oil.

### FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0112704</b>	GFL0112686	GFL0079537
Sample Date		Client Info		<b>24 Apr 2024</b>	27 Mar 2024	02 May 2023
Machine Age	hrs	Client Info		<b>3137</b>	2954	0
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>Not Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Not Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>50	<b>8</b>	20	▲ 86
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	2
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	2
Titanium	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	15
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>2</b>	4	● 6
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	5	3
Copper	ppm	ASTM D5185(m)	>150	<b>&lt;1</b>	2	14
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	2
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	4	▲ 25
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	9	10
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>8.4</b>	13.1	11.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.2</b>	25.8	25.2
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	▲ .2%	▲ .2%
Sodium	ppm	ASTM D5185(m)		<b>5</b>	9	7
Boron	ppm	ASTM D5185(m)	50	<b>30</b>	6	7
Barium	ppm	ASTM D5185(m)	5	<b>0</b>	<1	2
Molybdenum	ppm	ASTM D5185(m)	50	<b>48</b>	54	54
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	8
Magnesium	ppm	ASTM D5185(m)	560	<b>547</b>	584	535
Calcium	ppm	ASTM D5185(m)	1510	<b>1582</b>	1671	1466
Phosphorus	ppm	ASTM D5185(m)	780	<b>698</b>	728	723
Zinc	ppm	ASTM D5185(m)	870	<b>840</b>	939	885
Sulfur	ppm	ASTM D5185(m)	2040	<b>1965</b>	1951	1951
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.8</b>	21.7	19.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	<b>14.2</b>	14.0	13.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0112704  
**Lab Number** : 02633991  
**Unique Number** : 5775144  
**Test Package** : MOB 1  
**Received** : 08 May 2024  
**Tested** : 08 May 2024  
**Diagnosed** : 08 May 2024 - Wes Davis

**GFL Environmental - 253 - TOR APT**  
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 CA M4B 1Y9  
 Contact: Natalia Stalynska  
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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: