



Machine Id  
**700984**  
Component  
**Natural Gas Engine**  
Fluid  
**IRVING 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0051765</b>	GFL0051724	GFL0035093
Sample Date		Client Info		<b>01 May 2024</b>	18 May 2022	29 Jul 2021
Machine Age	hrs	Client Info		<b>15325</b>	11568	10993
Oil Age	hrs	Client Info		<b>1200</b>	1200	1200
Filter Age	hrs	Client Info		<b>1200</b>	1200	1200
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>27</b>	20	19
Chromium	ppm	ASTM D5185(m)	>4	<b>3</b>	2	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>9	<b>1</b>	1	1
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	3	12
Copper	ppm	ASTM D5185(m)	>35	<b>&lt;1</b>	3	8
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

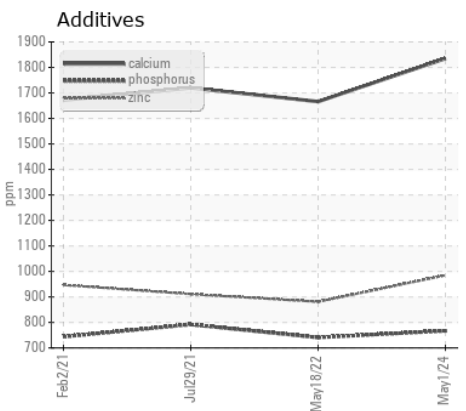
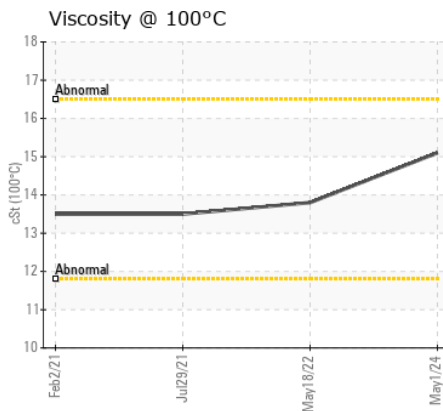
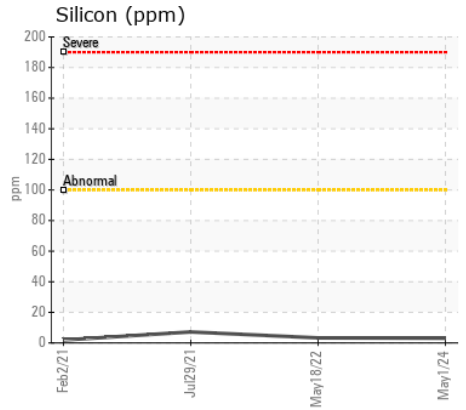
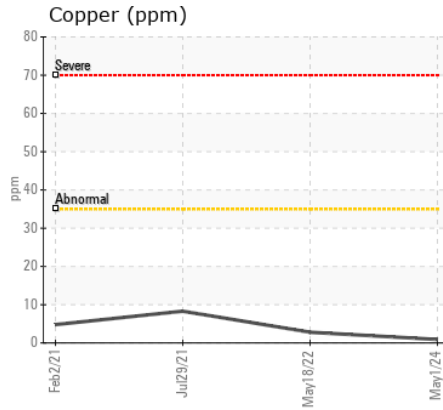
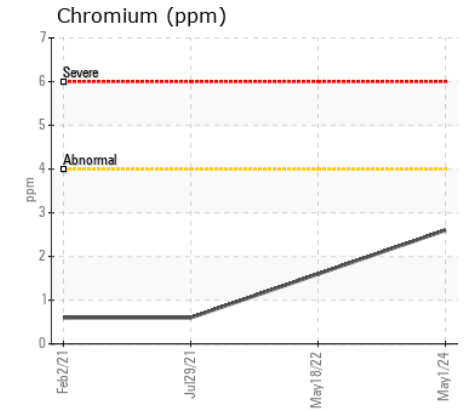
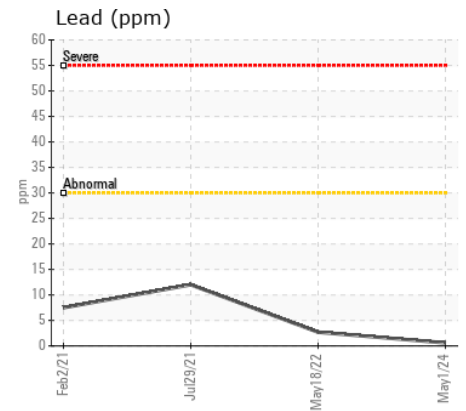
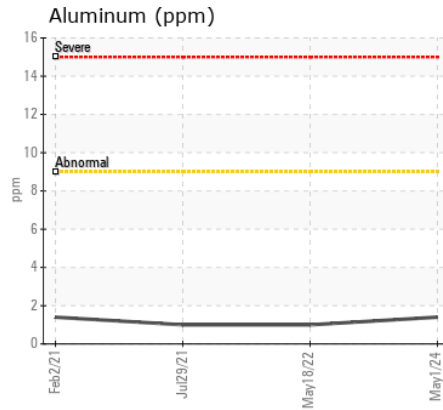
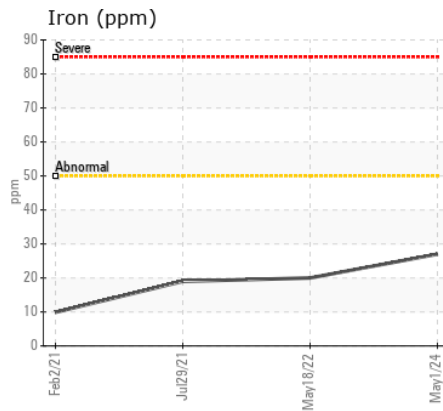
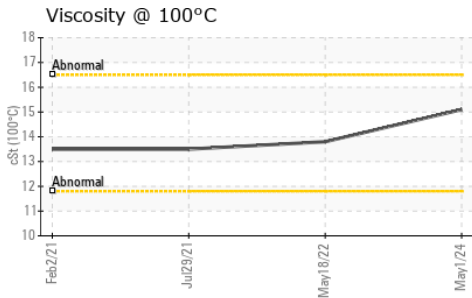
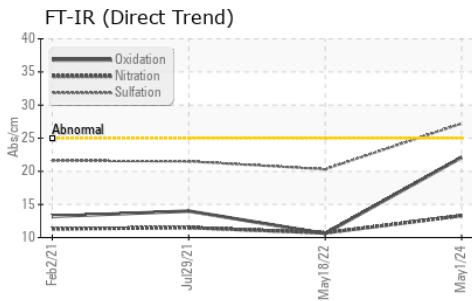
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>3</b>	3	7
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
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>13.3</b>	10.7	11.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>27.2</b>	20.3	21.5
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)	>101	<b>4</b>	2	2
Boron	ppm	ASTM D5185(m)		<b>8</b>	44	52
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>58</b>	5	6
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>623</b>	37	41
Calcium	ppm	ASTM D5185(m)		<b>1835</b>	1666	1720
Phosphorus	ppm	ASTM D5185(m)		<b>767</b>	741	792
Zinc	ppm	ASTM D5185(m)		<b>985</b>	881	911
Sulfur	ppm	ASTM D5185(m)		<b>2037</b>	1807	1747
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>22.1</b>	10.6	14.0
Visc @ 100°C	cSt	ASTM D7279(m)		<b>15.1</b>	13.8	13.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0051765 **Received** : 17 May 2024  
**Lab Number** : 02636332 **Tested** : 17 May 2024  
**Unique Number** : 5785494 **Diagnosed** : 17 May 2024 - Wes Davis  
**Test Package** : MOB 1

**GFL Environmental - 850 - Halifax**  
 20 SIMMONDS DRIVE  
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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.