



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**701066**  
Component  
**Diesel 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>GFL0051755</b>	GFL0035130	GFL0035094
Sample Date		Client Info		<b>24 Apr 2024</b>	08 Mar 2022	04 Aug 2021
Machine Age	hrs	Client Info		<b>11016</b>	7628	6437
Oil Age	hrs	Client Info		<b>600</b>	600	600
Filter Age	hrs	Client Info		<b>600</b>	600	600
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)	>90	<b>16</b>	27	46
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	2
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>14</b>	9	22
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	2	3
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<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**

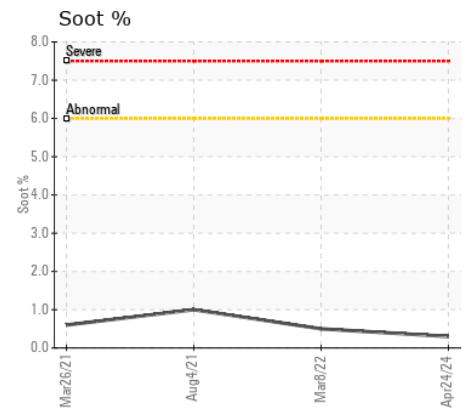
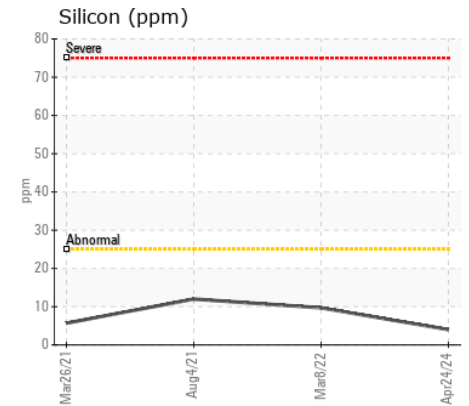
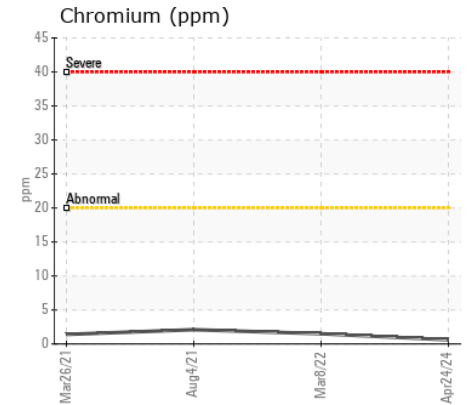
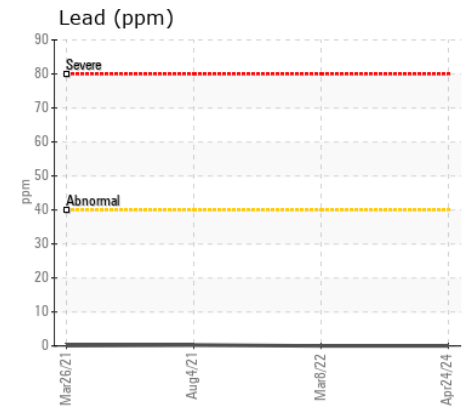
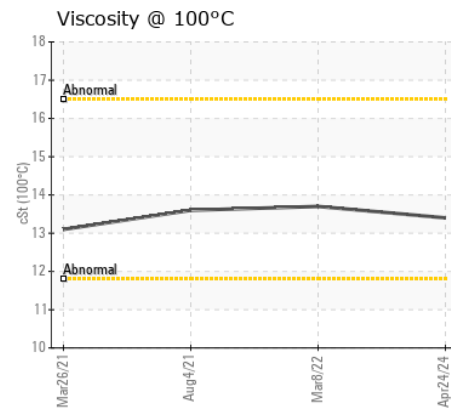
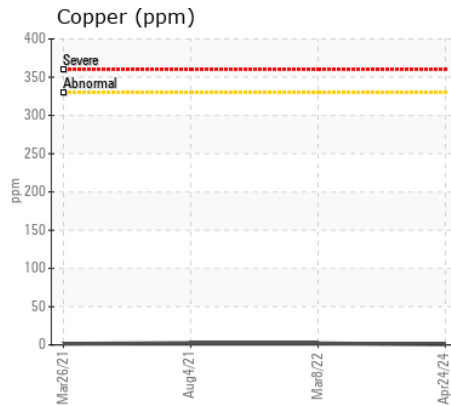
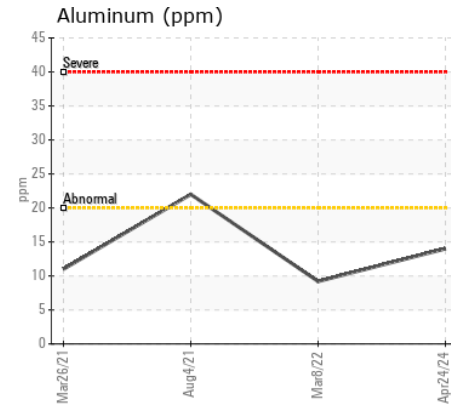
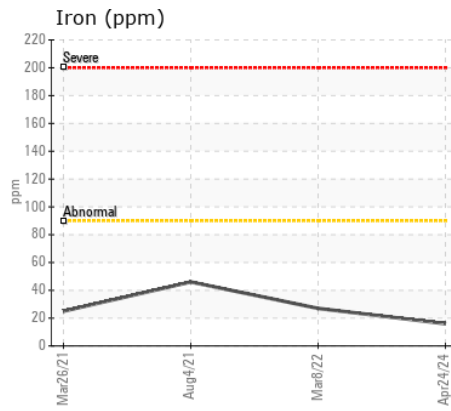
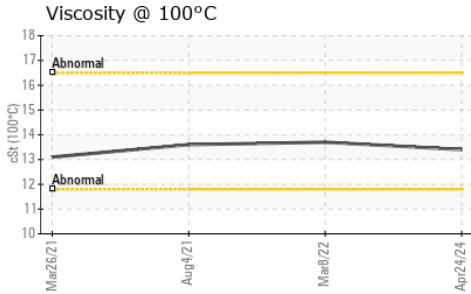
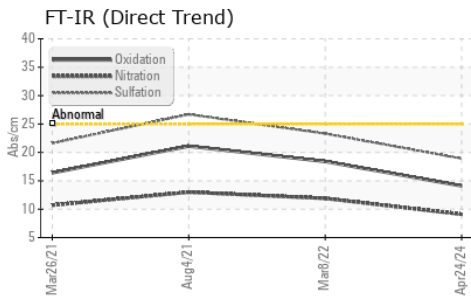
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	10	12
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	7	31
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	0.0	0.0
Soot %	%	ASTM D7844*	>6	<b>0.3</b>	0.5	1
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.1</b>	11.9	13.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.9</b>	23.3	26.7
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*	>0.2	<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>2</b>	2	3
Boron	ppm	ASTM D5185(m)		<b>40</b>	19	9
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>8</b>	49	33
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>124</b>	792	507
Calcium	ppm	ASTM D5185(m)		<b>2024</b>	1367	1678
Phosphorus	ppm	ASTM D5185(m)		<b>976</b>	1030	1037
Zinc	ppm	ASTM D5185(m)		<b>1125</b>	1156	1203
Sulfur	ppm	ASTM D5185(m)		<b>3123</b>	2631	2845
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.1</b>	18.4	21.1
Visc @ 100°C	cSt	ASTM D7279(m)		<b>13.4</b>	13.7	13.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0051755 **Received** : 25 Apr 2024  
**Lab Number** : 02631274 **Tested** : 25 Apr 2024  
**Unique Number** : 5772427 **Diagnosed** : 25 Apr 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**GFL Environmental - 850 - Halifax**  
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 F:

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.