



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

Machine Id  
**831023**  
 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>GFL0102929</b>	GFL0087005	GFL0066643
Sample Date		Client Info		<b>04 Jan 2024</b>	07 Jul 2023	18 Jan 2023
Machine Age	hrs	Client Info		<b>5500</b>	4423	3259
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	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>11</b>	12	19
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>30	<b>9</b>	4	4
Copper	ppm	ASTM D5185(m)	>35	<b>2</b>	2	2
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

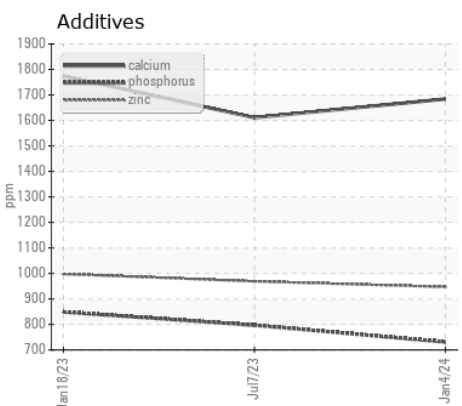
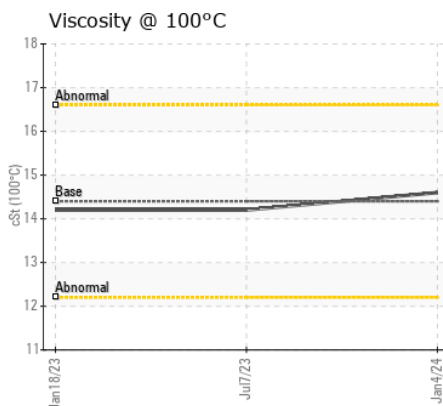
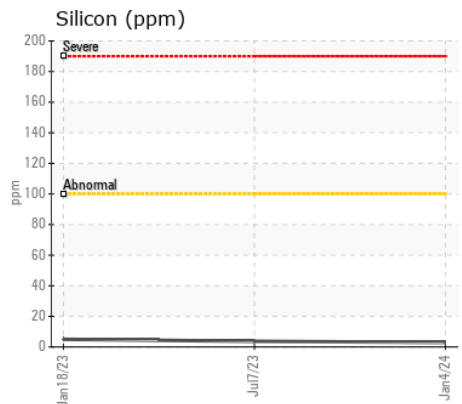
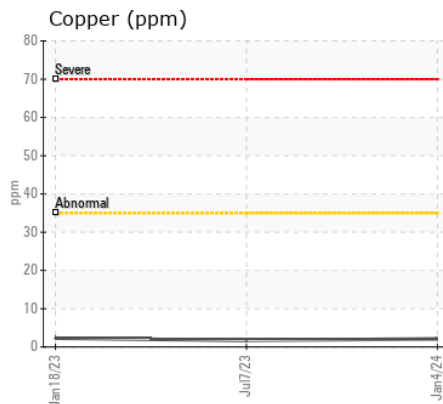
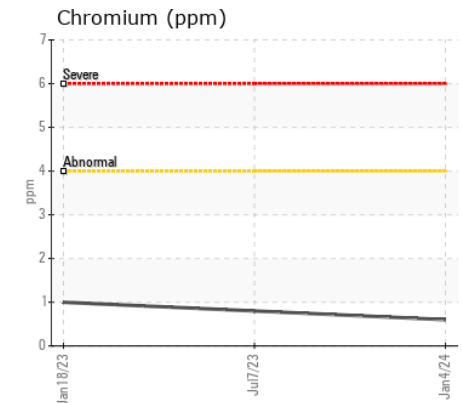
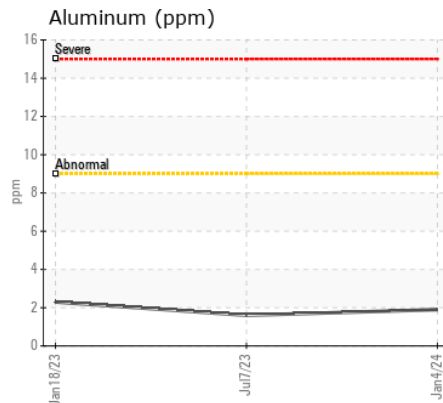
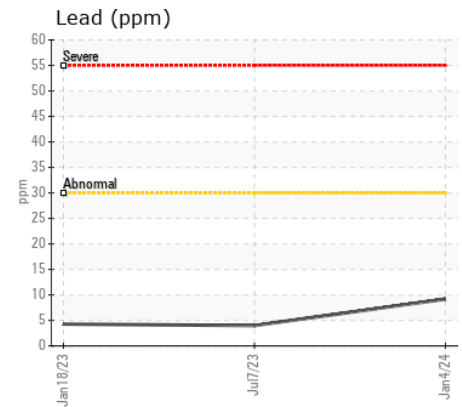
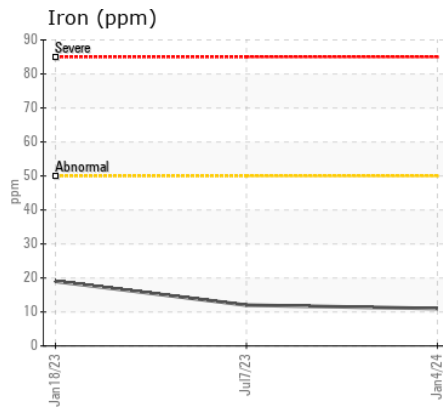
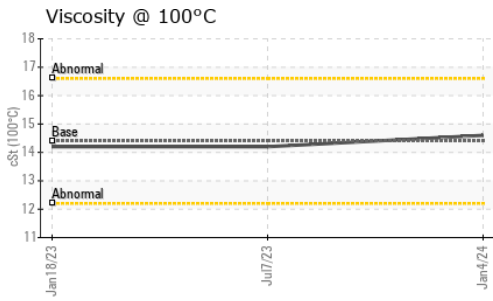
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>3</b>	4	5
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>12.1</b>	12.0	13.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.9</b>	25.4	26.2
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)	>158	<b>7</b>	8	10
Boron	ppm	ASTM D5185(m)	250	<b>13</b>	11	8
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>52</b>	54	59
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	2
Magnesium	ppm	ASTM D5185(m)	450	<b>556</b>	604	625
Calcium	ppm	ASTM D5185(m)	3000	<b>1684</b>	1611	1774
Phosphorus	ppm	ASTM D5185(m)	1150	<b>731</b>	797	849
Zinc	ppm	ASTM D5185(m)	1350	<b>947</b>	969	998
Sulfur	ppm	ASTM D5185(m)	4250	<b>2126</b>	2039	2165
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.2</b>	20.4	21.2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>14.6</b>	14.2	14.2



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 253 - TOR APT**  
**Sample No.** : GFL0102929 **Received** : 09 Jan 2024 **15 Bermondsey Road - Building B**  
**Lab Number** : 02607360 **Diagnosed** : 09 Jan 2024 **Toronto, ON**  
**Unique Number** : 5708446 **Diagnostician** : Wes Davis **CA M4B 1Y9**  
**Test Package** : MOB 1

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.

Contact: Sonia Ciampa  
 sciampa@gflenv.com  
 T: (416)740-8279  
 F: