



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



Machine Id  
**933027**  
Component  
**Natural Gas Engine**  
Fluid  
**{not provided} (--- GAL)**

**RECOMMENDATION**

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

**WEAR**

All component wear rates are normal.

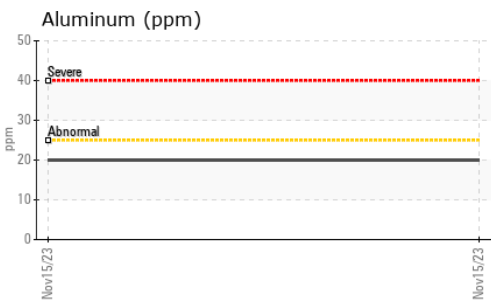
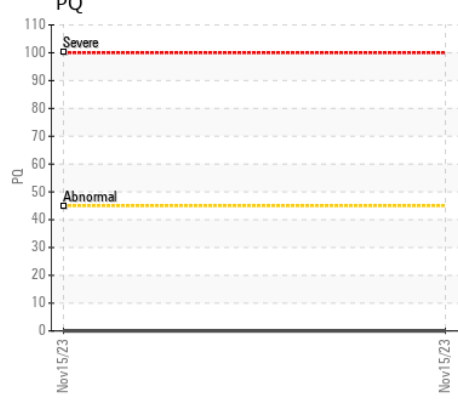
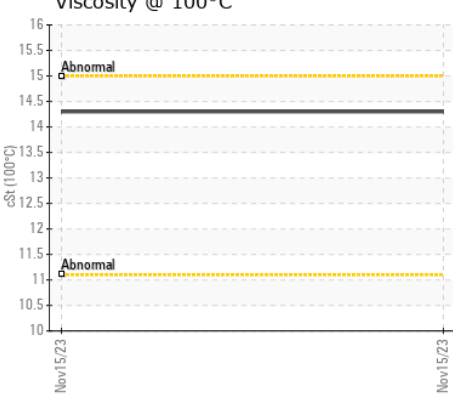
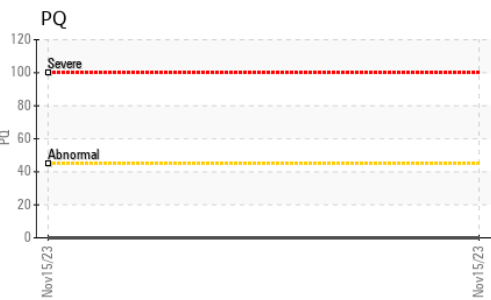
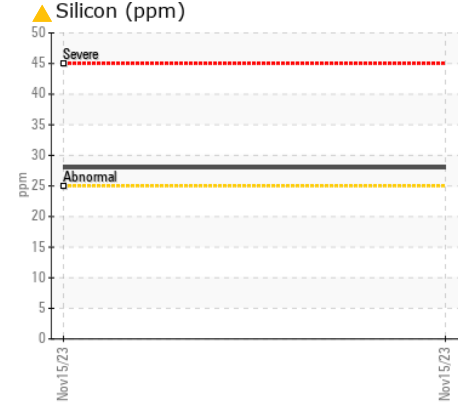
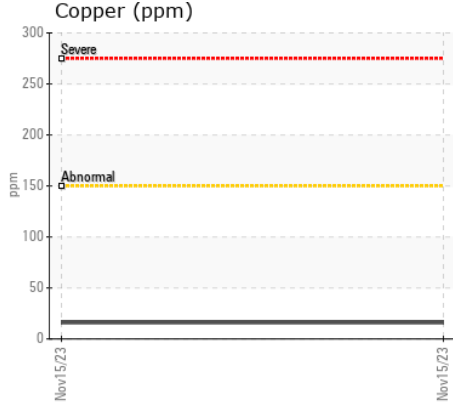
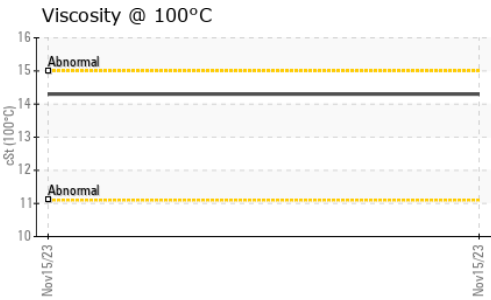
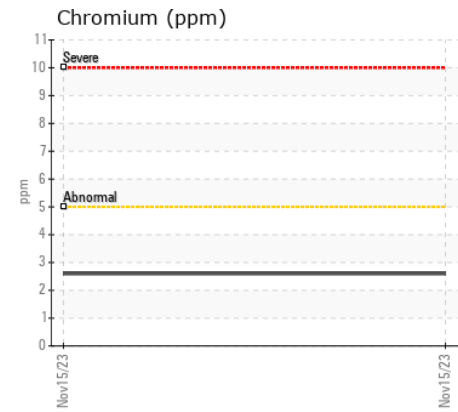
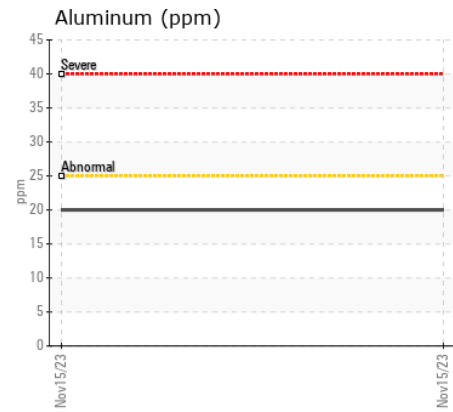
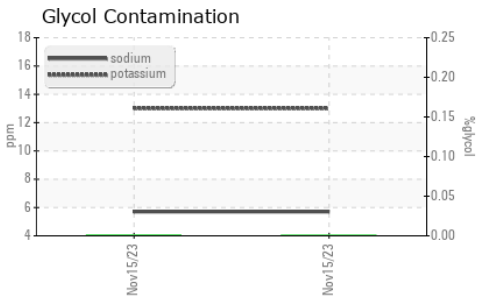
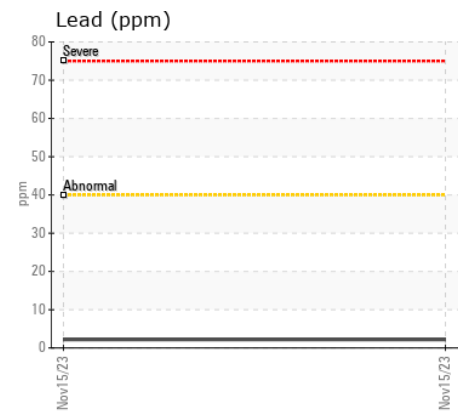
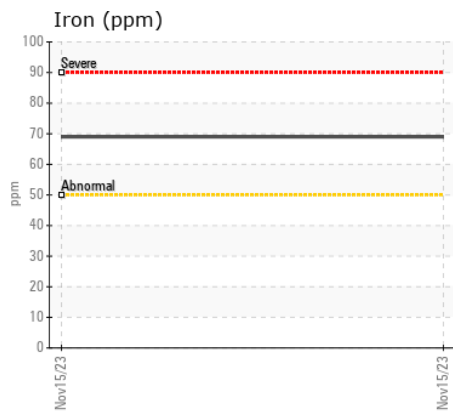
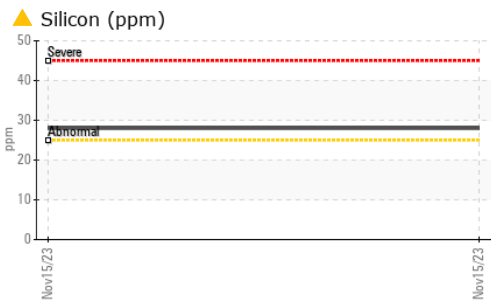
**CONTAMINATION**

There is a moderate concentration of dirt present in the oil.

**FLUID CONDITION**

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0102931</b>	---	---
Sample Date		Client Info		<b>15 Nov 2023</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---
PQ		ASTM D8184*	>45	<b>0</b>	---	---
Iron	ppm	ASTM D5185(m)	>50	<b>69</b>	---	---
Chromium	ppm	ASTM D5185(m)	>5	<b>3</b>	---	---
Nickel	ppm	ASTM D5185(m)	>4	<b>2</b>	---	---
Titanium	ppm	ASTM D5185(m)	>5	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>20</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>2</b>	---	---
Copper	ppm	ASTM D5185(m)	>150	<b>16</b>	---	---
Tin	ppm	ASTM D5185(m)	>4	<b>1</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Silicon	ppm	ASTM D5185(m)	>25	<b>▲ 28</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>13</b>	---	---
Water		WC Method	>0.1	<b>NEG</b>	---	---
Glycol	%	ASTM D7922*		<b>0.0</b>	---	---
Soot %	%	ASTM D7844*		<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.6</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>25.5</b>	---	---
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>	---	---
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>6</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>8</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>3</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>55</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>11</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>731</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>1337</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>718</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>855</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>1927</b>	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>23.1</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		<b>14.3</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 253 - TOR APT**  
**Sample No.** : GFL0102931 **Received** : 09 Jan 2024 15 Bermondsey Road - Building B  
**Lab Number** : 02607357 **Diagnosed** : 12 Jan 2024 Toronto, ON  
**Unique Number** : 5708443 **Diagnostician** : Kevin Marson CA M4B 1Y9  
**Test Package** : MOB 1 ( Additional Tests: BottomAnalysis, FILTERPATCH, Glycol, PQ, Visual ) **Contact:** Sonia Ciampa  
 sciampa@gflenv.com  
 T: (416)740-8279  
 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.*