



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

Machine Id  
**219003**  
Component  
**Natural Gas Engine**  
Fluid  
**MOBIL 1 FS 0W40 (--- GAL)**

**RECOMMENDATION**

The component was not specified, however we determined the component was a natural gas engine based on the type of fluid used. Please specify component type with your next sample. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0117125</b>	---	---
Sample Date		Client Info		<b>04 Jun 2024</b>	---	---
Machine Age	hrs	Client Info		<b>2551</b>	---	---
Oil Age	hrs	Client Info		<b>600</b>	---	---
Filter Age	hrs	Client Info		<b>600</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>90</b>	---	---
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>1</b>	---	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>9	<b>9</b>	---	---
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m)	>35	<b>2</b>	---	---
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

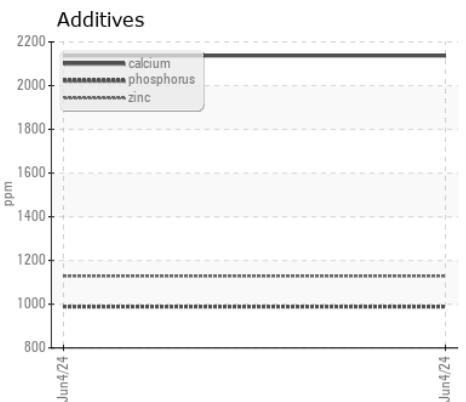
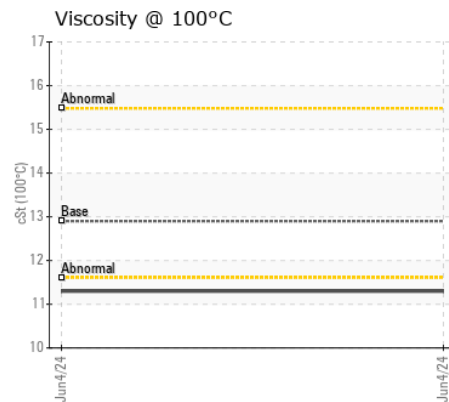
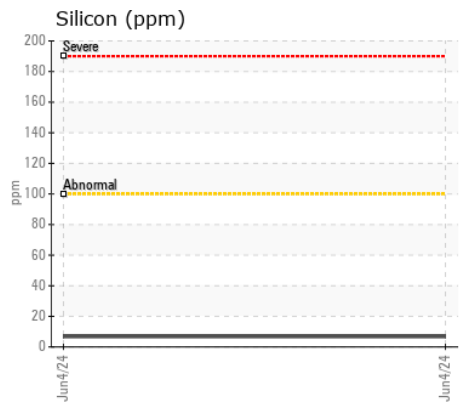
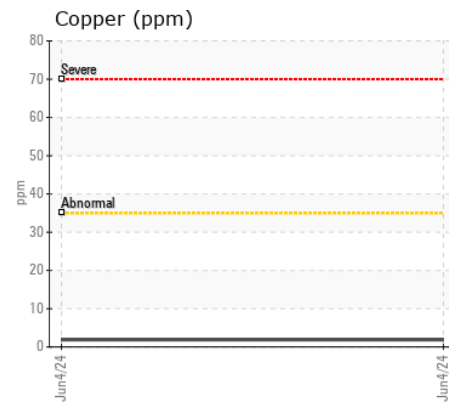
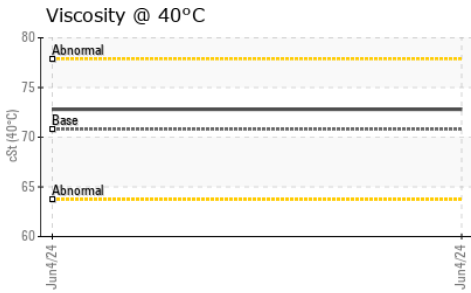
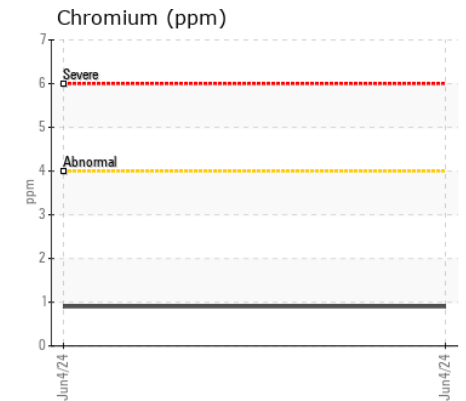
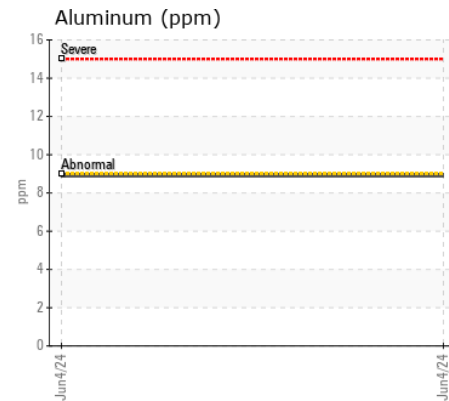
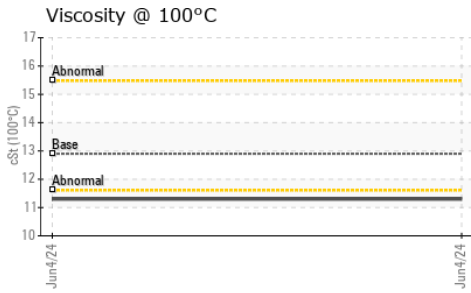
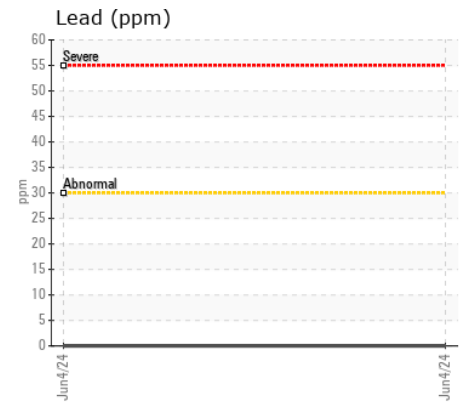
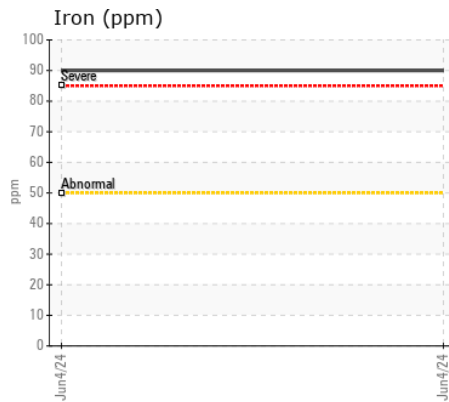
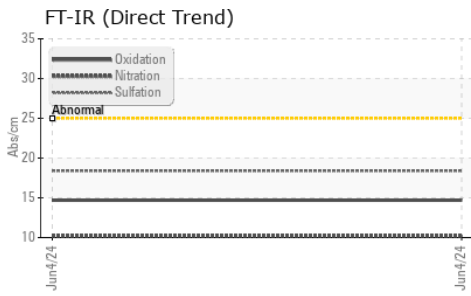
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>7</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	---	---
Water		WC Method	>0.1	<b>NEG</b>	---	---
Soot %	%	ASTM D7844*		<b>0.1</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.2</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.4</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>	---	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)		<b>2</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>46</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>76</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>26</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>2137</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>989</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>1129</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>3065</b>	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.7</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	70.8	<b>72.8</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.9	<b>11.3</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	186	<b>147</b>	---	---



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0117125  
**Lab Number** : 02640749  
**Unique Number** : 5789911  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI, Visual )

**GFL Environmental - 209 - Hamilton**

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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.*