



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

Machine Id  
**434029**  
 Component  
**Natural Gas Engine**  
 Fluid  
**{not provided} (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

**WEAR**

All component wear rates are normal.

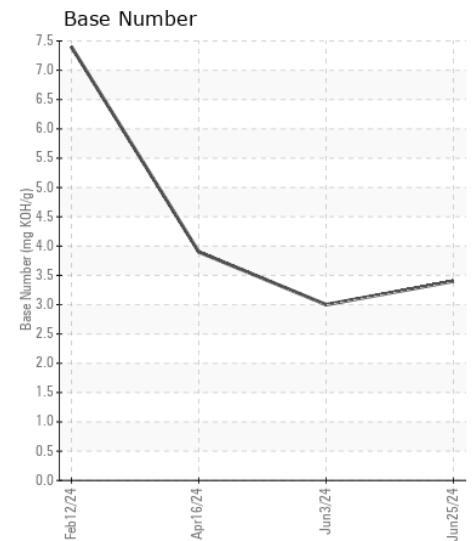
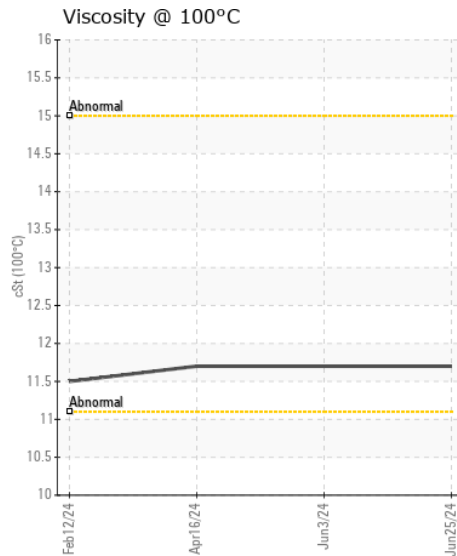
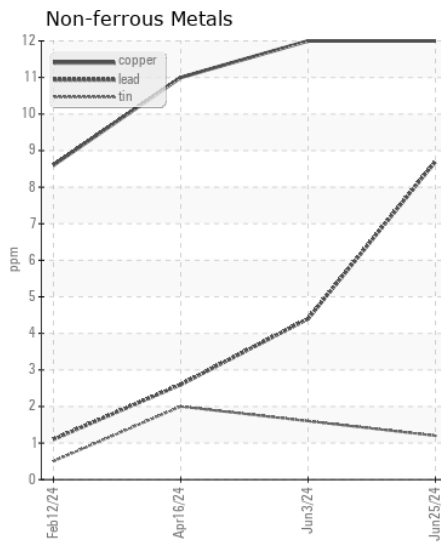
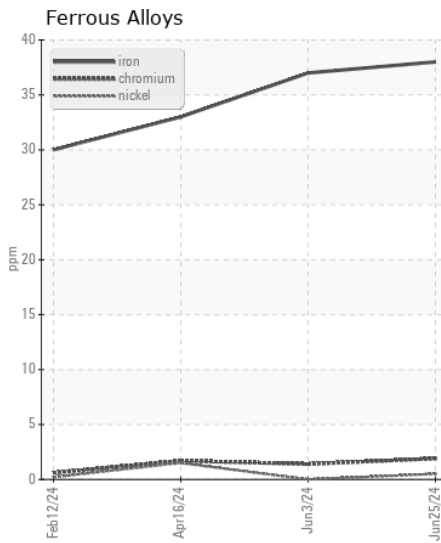
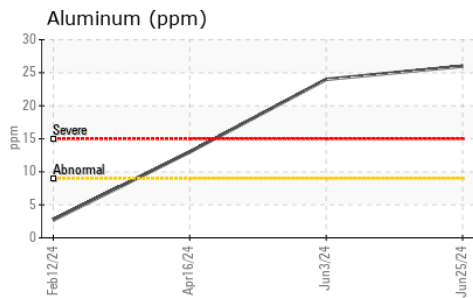
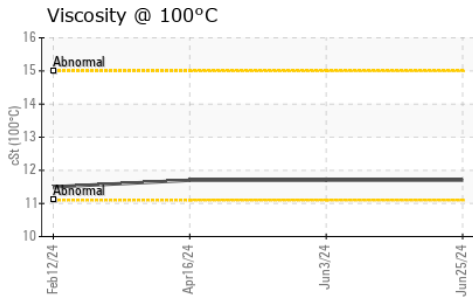
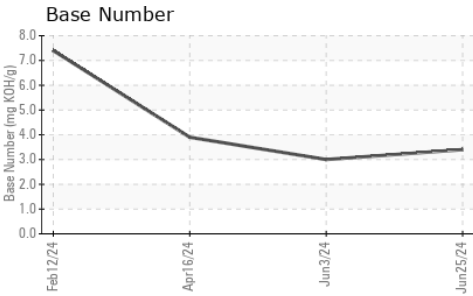
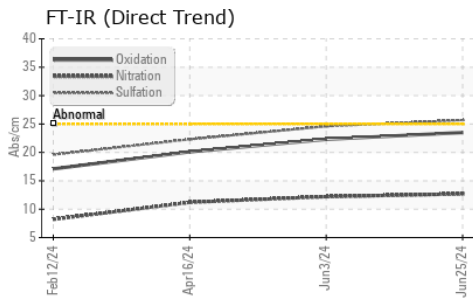
**CONTAMINATION**

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0122014</b>	GFL0116584	GFL0116570
Sample Date		Client Info		<b>25 Jun 2024</b>	03 Jun 2024	16 Apr 2024
Machine Age	hrs	Client Info		<b>1117</b>	947	618
Oil Age	hrs	Client Info		<b>170</b>	947	618
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>50	<b>38</b>	37	33
Chromium	ppm	ASTM D5185m	>4	<b>2</b>	1	2
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	2
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>9	<b>26</b>	24	13
Lead	ppm	ASTM D5185m	>30	<b>9</b>	4	3
Copper	ppm	ASTM D5185m	>35	<b>12</b>	12	11
Tin	ppm	ASTM D5185m	>4	<b>1</b>	2	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>+100	<b>80</b>	91	94
Potassium	ppm	ASTM D5185m	>20	<b>81</b>	80	▲ 53
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.7</b>	12.2	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.7</b>	24.6	22.3
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185m		<b>6</b>	7	5
Boron	ppm	ASTM D5185m		<b>5</b>	9	13
Barium	ppm	ASTM D5185m		<b>6</b>	7	6
Molybdenum	ppm	ASTM D5185m		<b>50</b>	52	51
Manganese	ppm	ASTM D5185m		<b>4</b>	4	4
Magnesium	ppm	ASTM D5185m		<b>754</b>	809	696
Calcium	ppm	ASTM D5185m		<b>1181</b>	1194	1152
Phosphorus	ppm	ASTM D5185m		<b>722</b>	727	647
Zinc	ppm	ASTM D5185m		<b>898</b>	881	845
Sulfur	ppm	ASTM D5185m		<b>2360</b>	2501	2463
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.5</b>	22.3	20.1
Base Number (BN)	mg KOH/g	ASTM D2896		<b>3.4</b>	3.0	3.9
Visc @ 100°C	cSt	ASTM D445		<b>11.7</b>	11.7	11.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0122014  
**Lab Number** : 06222182  
**Unique Number** : 11100379  
**Test Package** : FLEET

**GFL Environmental - 652 - Fredericksburg Hauling**  
 10954 Houser Drive  
 Fredericksburg, VA  
 US 22408  
 Contact: WILLIAM MILO  
 wmilo@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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F: