



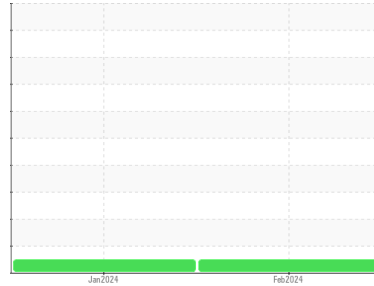
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**834101**  
Component  
**Natural Gas Engine**  
Fluid  
**{not provided} (--- GAL)**



## DIAGNOSIS

### Recommendation

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

### Wear

Metal levels are typical for a new component breaking in.

### 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.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0108262</b>	GFL0108335	---
Sample Date	Client Info		<b>01 Feb 2024</b>	06 Jan 2024	---
Machine Age	hrs	Client Info	<b>341</b>	156	---
Oil Age	hrs	Client Info	<b>341</b>	156	---
Oil Changed	Client Info		<b>Not Chngd</b>	N/A	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>49</b>	45	---
Chromium	ppm	ASTM D5185m >4	<b>2</b>	2	---
Nickel	ppm	ASTM D5185m >2	<b>2</b>	2	---
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >9	<b>51</b>	42	---
Lead	ppm	ASTM D5185m >30	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m >35	<b>15</b>	15	---
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	1	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>28</b>	47	---
Barium	ppm	ASTM D5185m	<b>1</b>	3	---
Molybdenum	ppm	ASTM D5185m	<b>59</b>	61	---
Manganese	ppm	ASTM D5185m	<b>13</b>	13	---
Magnesium	ppm	ASTM D5185m	<b>755</b>	778	---
Calcium	ppm	ASTM D5185m	<b>1071</b>	1160	---
Phosphorus	ppm	ASTM D5185m	<b>717</b>	806	---
Zinc	ppm	ASTM D5185m	<b>869</b>	907	---
Sulfur	ppm	ASTM D5185m	<b>2227</b>	2409	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>31</b>	32	---
Sodium	ppm	ASTM D5185m	<b>6</b>	7	---
Potassium	ppm	ASTM D5185m >20	<b>128</b>	123	---

## INFRA-RED

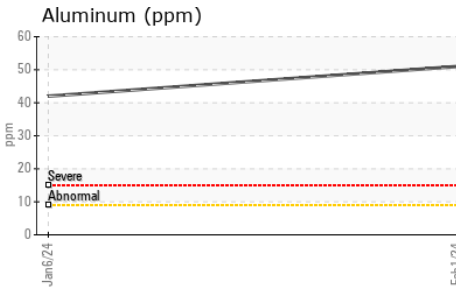
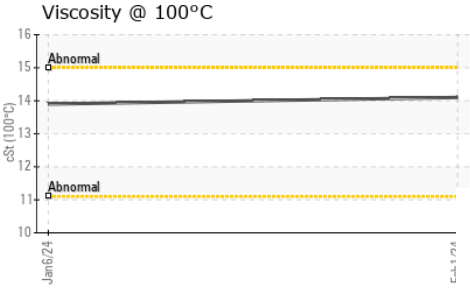
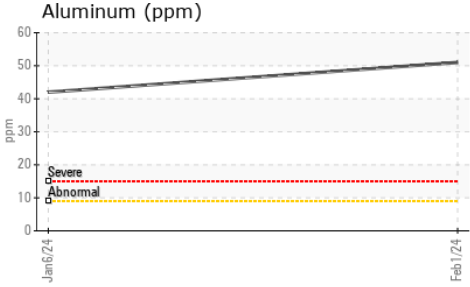
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.2</b>	8.9	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>20.8</b>	20.7	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>18.7</b>	17.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>5.6</b>	7.4	---



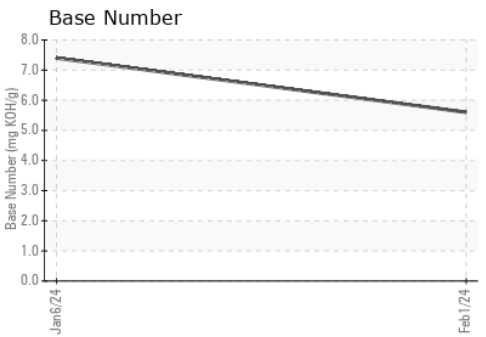
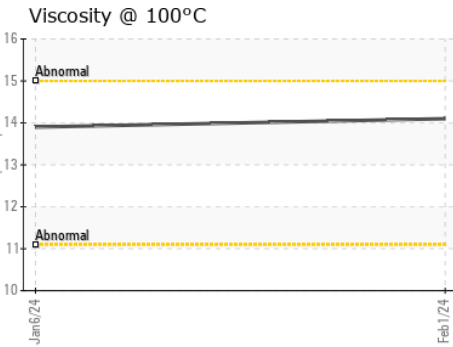
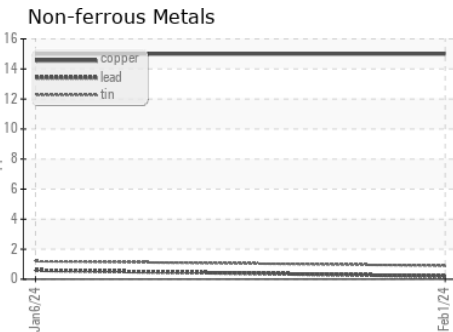
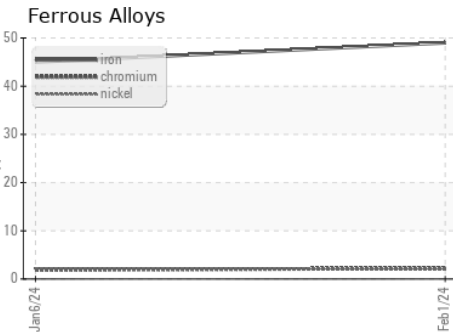
# OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.1	13.9	---

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : GFL0108262  
 Lab Number : 06083034  
 Unique Number : 10870479  
 Test Package : FLEET

Received : 07 Feb 2024  
 Tested : 08 Feb 2024  
 Diagnosed : 08 Feb 2024 - Wes Davis

GFL Environmental - 652 - Fredericksburg Hauling  
 10954 Houser Drive  
 Fredericksburg, VA  
 US 22408  
 Contact: WILLIAM MILO  
 wmiло@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: