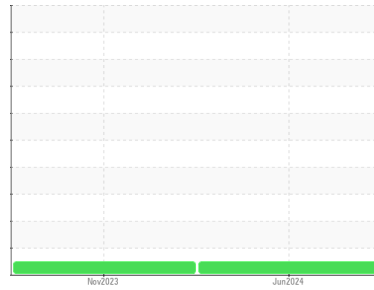




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**(YA171054)**  
 Machine Id  
**932030**  
 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

All component wear rates are normal.

### Contamination

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>GFL0123417</b>	GFL0082487	---
Sample Date	Client Info			<b>18 Jun 2024</b>	14 Nov 2023	---
Machine Age	hrs	Client Info		<b>1212</b>	1212	---
Oil Age	hrs	Client Info		<b>1212</b>	1212	---
Oil Changed	Client Info			<b>Changed</b>	Changed	---
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>10</b>	6	---
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>9	<b>4</b>	2	---
Lead	ppm	ASTM D5185m	>30	<b>12</b>	2	---
Copper	ppm	ASTM D5185m	>35	<b>4</b>	2	---
Tin	ppm	ASTM D5185m	>4	<b>0</b>	1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>6</b>	3	---
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Molybdenum	ppm	ASTM D5185m		<b>56</b>	55	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185m		<b>619</b>	585	---
Calcium	ppm	ASTM D5185m		<b>1950</b>	1572	---
Phosphorus	ppm	ASTM D5185m		<b>858</b>	740	---
Zinc	ppm	ASTM D5185m		<b>1107</b>	965	---
Sulfur	ppm	ASTM D5185m		<b>3013</b>	2343	---

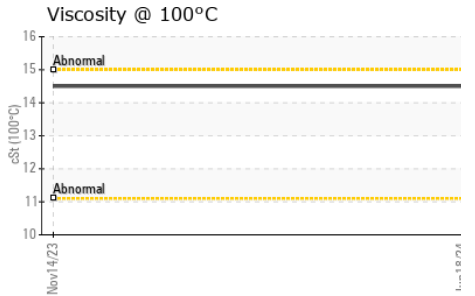
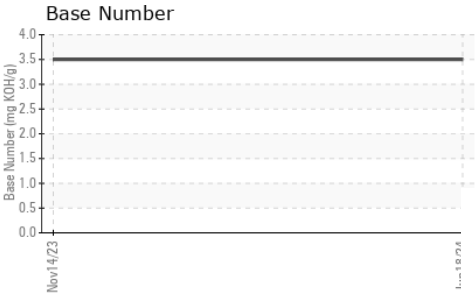
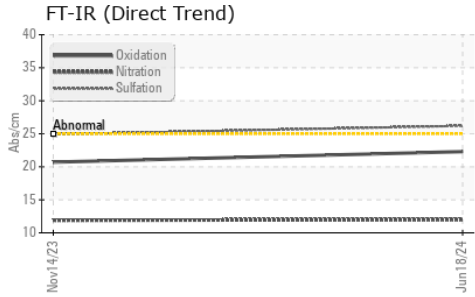
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	<b>7</b>	12	---
Sodium	ppm	ASTM D5185m		<b>10</b>	6	---
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	5	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		<b>0</b>	0	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.0</b>	11.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.2</b>	24.9	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.3</b>	20.7	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>3.5</b>	3.5	---



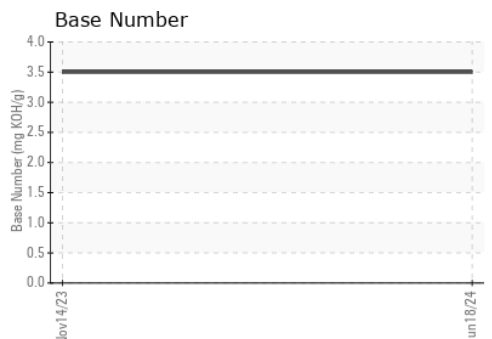
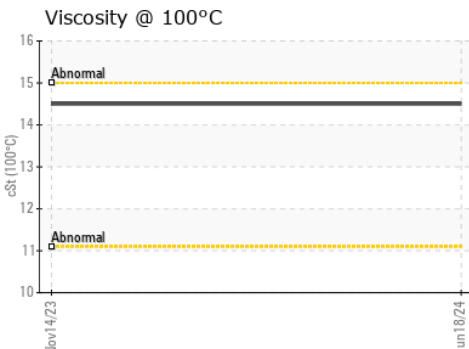
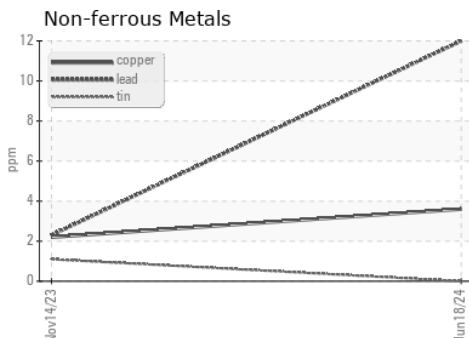
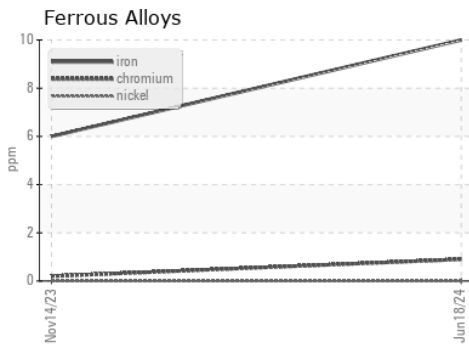
# OIL ANALYSIS REPORT



VISUAL	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	<b>14.5</b>	14.5	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0123417      **Received** : 20 Jun 2024  
**Lab Number** : **06215563**      **Tested** : 21 Jun 2024  
**Unique Number** : 11088427      **Diagnosed** : 21 Jun 2024 - Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 007 - Brunswick**  
 2809 Galloway Road  
 Bolivia, NC  
 US 28422  
 Contact: DONALD CRAVEN  
 dcraven@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)