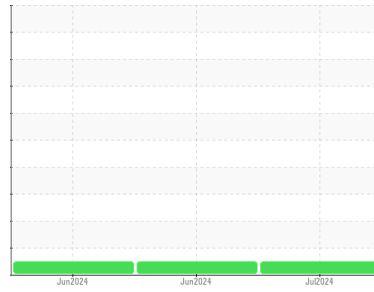




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**734000**  
 Component  
**Natural Gas Engine**  
 Fluid  
**{not provided} (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. 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

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>GFL0127185</b>	GFL0122031	GFL0122038
Sample Date	Client Info		<b>10 Jul 2024</b>	25 Jun 2024	06 Jun 2024
Machine Age	hrs	Client Info	<b>782</b>	652	507
Oil Age	hrs	Client Info	<b>782</b>	652	507
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>56</b>	57	55
Chromium	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >2	<b>1</b>	2	1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >3	<b>1</b>	<1	<1
Aluminum	ppm	ASTM D5185m >9	<b>3</b>	6	3
Lead	ppm	ASTM D5185m >30	<b>1</b>	1	1
Copper	ppm	ASTM D5185m >35	<b>19</b>	18	19
Tin	ppm	ASTM D5185m >4	<b>1</b>	1	1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>17</b>	18	22
Barium	ppm	ASTM D5185m	<b>3</b>	3	<1
Molybdenum	ppm	ASTM D5185m	<b>55</b>	54	54
Manganese	ppm	ASTM D5185m	<b>12</b>	12	13
Magnesium	ppm	ASTM D5185m	<b>717</b>	762	727
Calcium	ppm	ASTM D5185m	<b>1208</b>	1126	1051
Phosphorus	ppm	ASTM D5185m	<b>640</b>	736	554
Zinc	ppm	ASTM D5185m	<b>935</b>	1001	869
Sulfur	ppm	ASTM D5185m	<b>2226</b>	2768	2130

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>32</b>	30	34
Sodium	ppm	ASTM D5185m	<b>2</b>	9	5
Potassium	ppm	ASTM D5185m >20	<b>10</b>	9	9

## INFRA-RED

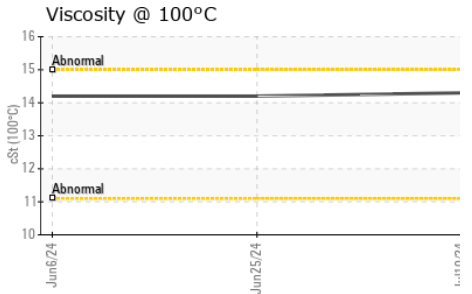
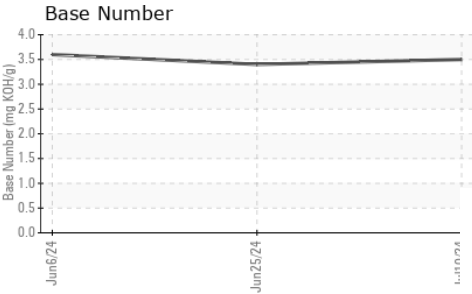
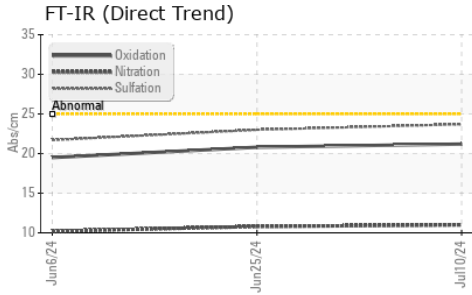
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.0</b>	10.8	10.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>23.7</b>	23.0	21.7

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>21.2</b>	20.8	19.5
Base Number (BN)	mg KOH/g	ASTM D2896	<b>3.5</b>	3.4	3.6



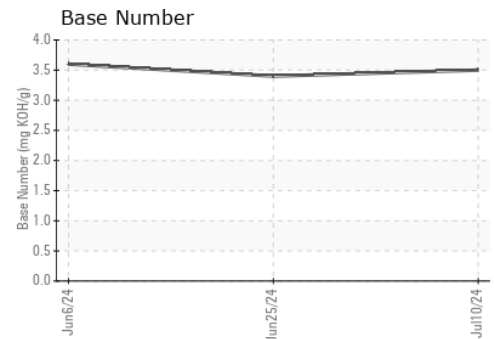
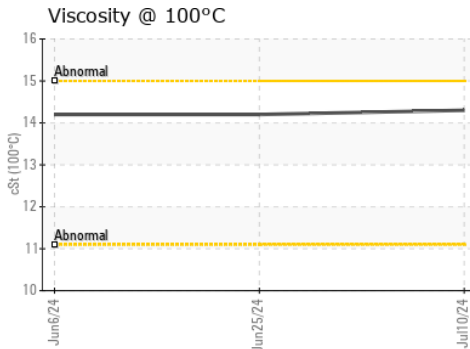
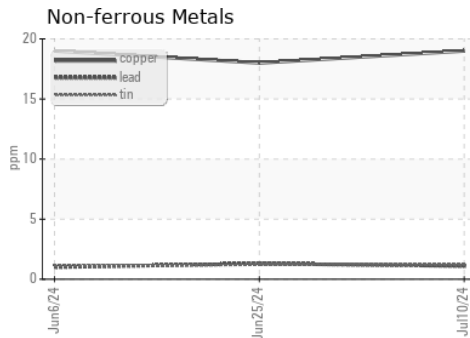
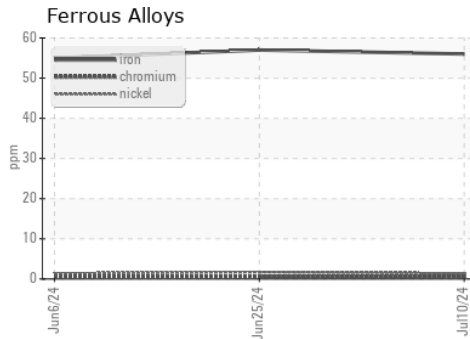
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	<b>14.3</b>	14.2	14.2

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0127185  
**Lab Number** : 06235552  
**Unique Number** : 11124386  
**Test Package** : FLEET

**Received** : 15 Jul 2024  
**Tested** : 15 Jul 2024  
**Diagnosed** : 15 Jul 2024 - Wes Davis

**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: