

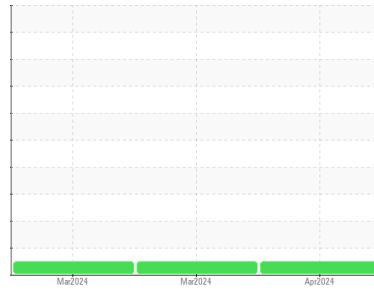


# OIL ANALYSIS REPORT



Machine Id  
**834012**  
 Component  
**Natural Gas Engine**  
 Fluid  
**{not provided} (--- GAL)**

### Sample Rating Trend



**NORMAL**



## 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

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>GFL0116555</b>	GFL0111865	GFL0111840
Sample Date	Client Info			<b>08 Apr 2024</b>	27 Mar 2024	04 Mar 2024
Machine Age	hrs	Client Info		<b>603</b>	537	364
Oil Age	hrs	Client Info		<b>603</b>	537	364
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>55</b>	57	50
Chromium	ppm	ASTM D5185m	>4	<b>2</b>	<1	0
Nickel	ppm	ASTM D5185m	>2	<b>2</b>	2	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>9	<b>3</b>	3	1
Lead	ppm	ASTM D5185m	>30	<b>2</b>	2	<1
Copper	ppm	ASTM D5185m	>35	<b>20</b>	21	13
Tin	ppm	ASTM D5185m	>4	<b>2</b>	2	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>6</b>	12	16
Barium	ppm	ASTM D5185m		<b>4</b>	2	5
Molybdenum	ppm	ASTM D5185m		<b>51</b>	57	48
Manganese	ppm	ASTM D5185m		<b>18</b>	19	16
Magnesium	ppm	ASTM D5185m		<b>747</b>	708	765
Calcium	ppm	ASTM D5185m		<b>1235</b>	1225	1125
Phosphorus	ppm	ASTM D5185m		<b>712</b>	611	665
Zinc	ppm	ASTM D5185m		<b>916</b>	860	852
Sulfur	ppm	ASTM D5185m		<b>2488</b>	2086	1961

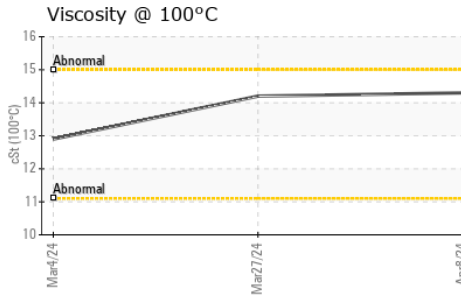
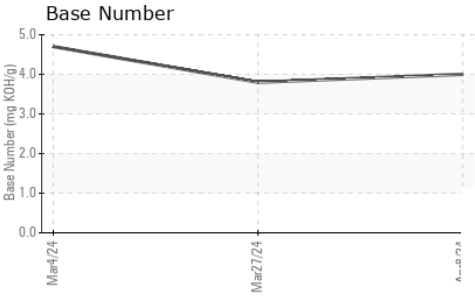
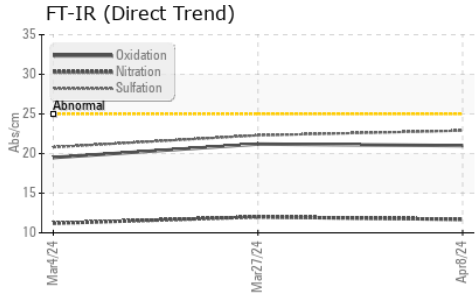
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	<b>32</b>	39	32
Sodium	ppm	ASTM D5185m		<b>5</b>	5	3
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	15	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		<b>0.1</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.7</b>	12.0	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.9</b>	22.3	20.8

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.0</b>	21.2	19.5
Base Number (BN)	mg KOH/g	ASTM D2896		<b>4.0</b>	3.8	4.7



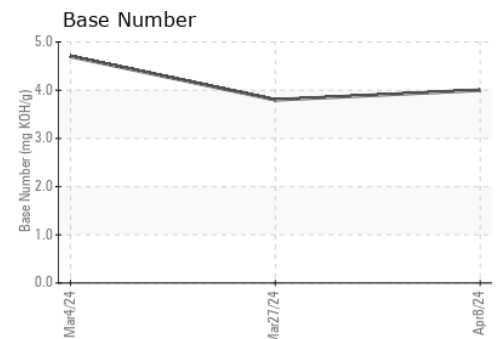
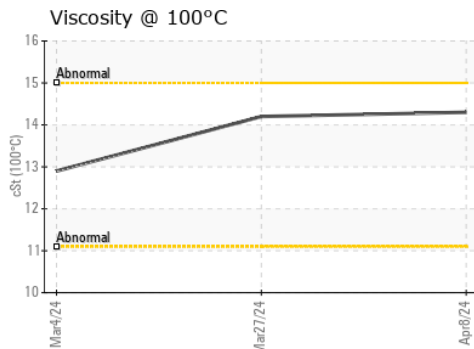
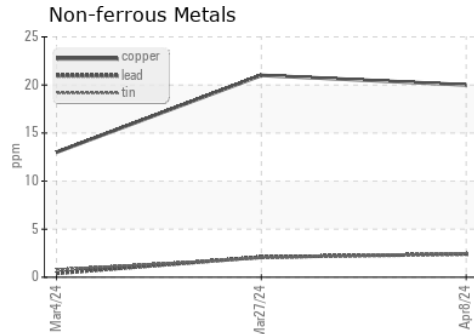
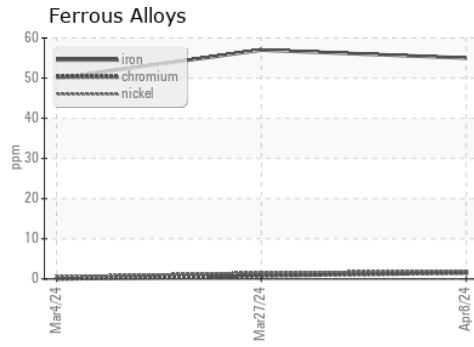
# OIL ANALYSIS REPORT



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	12.9

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0116555      **Received** : 09 Apr 2024  
**Lab Number** : **06143537**      **Tested** : 10 Apr 2024  
**Unique Number** : 10968345      **Diagnosed** : 10 Apr 2024 - Wes Davis  
**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)