



# OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION



Area  
**(C0857008)**  
Machine Id  
**934027**  
Component  
**Natural Gas Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W30 (--- GAL)**



## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

Cylinder, crank, or cam shaft wear is indicated.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN level is low. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0103430</b>	---	---
Sample Date	Client Info		<b>19 Mar 2024</b>	---	---
Machine Age	hrs	Client Info	<b>1125</b>	---	---
Oil Age	hrs	Client Info	<b>1125</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>▲ 95</b>	---	---
Chromium	ppm	ASTM D5185m >4	<b>3</b>	---	---
Nickel	ppm	ASTM D5185m >2	<b>4</b>	---	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m >9	<b>24</b>	---	---
Lead	ppm	ASTM D5185m >30	<b>4</b>	---	---
Copper	ppm	ASTM D5185m >35	<b>23</b>	---	---
Tin	ppm	ASTM D5185m >4	<b>3</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	<b>3</b>	---	---
Barium	ppm	ASTM D5185m 10	<b>4</b>	---	---
Molybdenum	ppm	ASTM D5185m 100	<b>79</b>	---	---
Manganese	ppm	ASTM D5185m	<b>15</b>	---	---
Magnesium	ppm	ASTM D5185m 450	<b>939</b>	---	---
Calcium	ppm	ASTM D5185m 3000	<b>1225</b>	---	---
Phosphorus	ppm	ASTM D5185m 1150	<b>926</b>	---	---
Zinc	ppm	ASTM D5185m 1350	<b>1126</b>	---	---
Sulfur	ppm	ASTM D5185m 4250	<b>2376</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>30</b>	---	---
Sodium	ppm	ASTM D5185m >25	<b>8</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>66</b>	---	---

## INFRA-RED

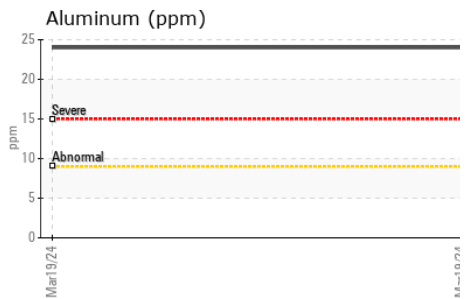
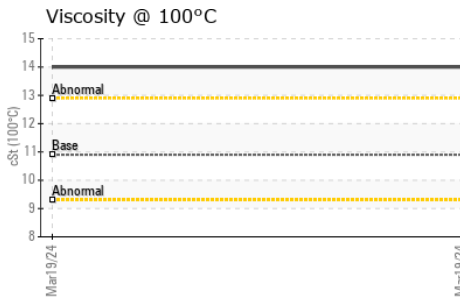
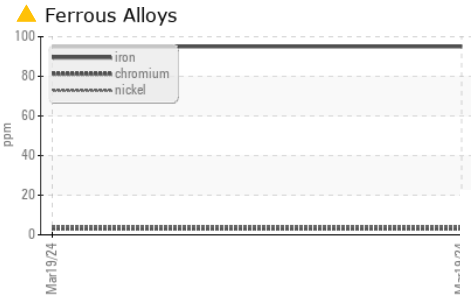
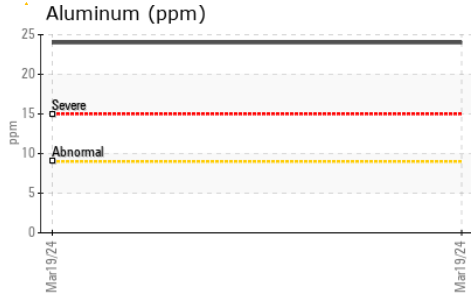
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	---	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>12.8</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>27.3</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>25.9</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	<b>▲ 2.5</b>	---	---



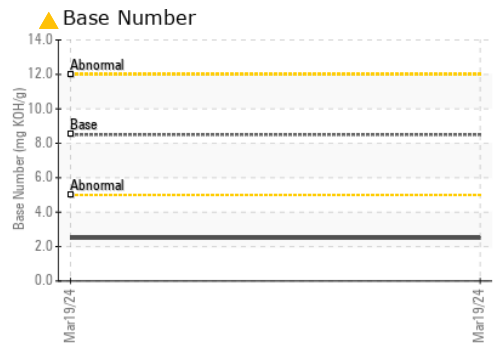
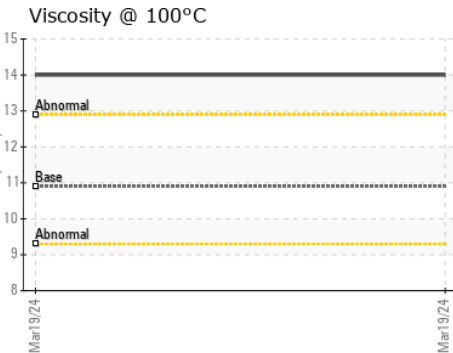
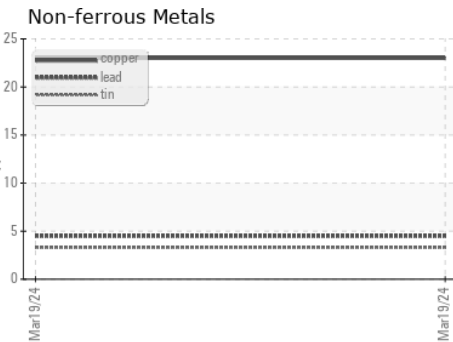
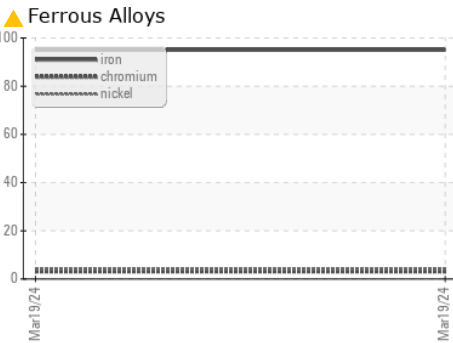
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	10.9	<b>14.0</b>	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0103430  
**Lab Number** : **06126909**  
**Unique Number** : 10941060  
**Test Package** : FLEET

**Received** : 22 Mar 2024  
**Tested** : 27 Mar 2024  
**Diagnosed** : 27 Mar 2024 - Jonathan Hester

**GFL Environmental - 095 - Atlanta West**  
 2699 Cochran Industrial Blvd  
 Douglasville, GA  
 US 30127-1332  
 Contact: Darrell Welch  
 darrell.welch@gflenv.com  
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 F:

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)