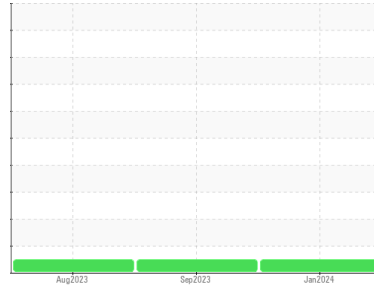




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**AUTOCAR 832005**

Component  
**Natural Gas Engine**

Fluid  
**{not provided} (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### 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>GFL0087454</b>	GFL0087518	GFL0087541
Sample Date	Client Info			<b>03 Jan 2024</b>	08 Sep 2023	10 Aug 2023
Machine Age	hrs	Client Info		<b>1956</b>	1178	973
Oil Age	hrs	Client Info		<b>778</b>	1178	373
Oil Changed	Client Info			<b>Not Changed</b>	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>11</b>	32	32
Chromium	ppm	ASTM D5185m	>4	<b>1</b>	2	1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>9	<b>2</b>	4	5
Lead	ppm	ASTM D5185m	>30	<b>1</b>	1	2
Copper	ppm	ASTM D5185m	>35	<b>2</b>	10	12
Tin	ppm	ASTM D5185m	>4	<b>1</b>	2	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>11</b>	9	8
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>66</b>	71	69
Manganese	ppm	ASTM D5185m		<b>1</b>	8	8
Magnesium	ppm	ASTM D5185m		<b>656</b>	783	763
Calcium	ppm	ASTM D5185m		<b>1754</b>	1653	1516
Phosphorus	ppm	ASTM D5185m		<b>805</b>	785	744
Zinc	ppm	ASTM D5185m		<b>1100</b>	1088	1018
Sulfur	ppm	ASTM D5185m		<b>2582</b>	3049	2961

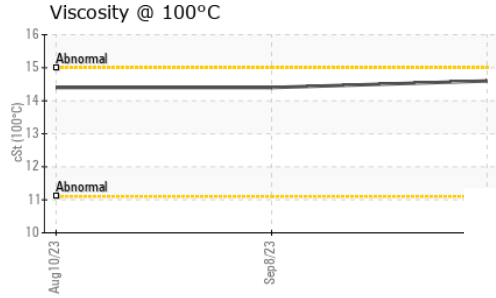
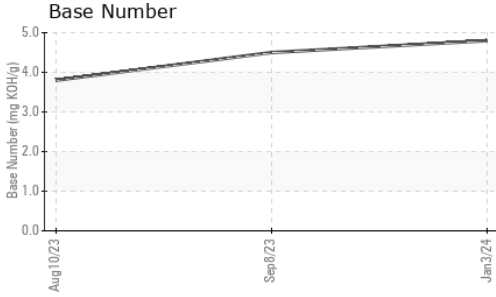
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	<b>6</b>	15	18
Sodium	ppm	ASTM D5185m		<b>7</b>	5	6
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		<b>0</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.2</b>	11.7	11.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.7</b>	23.8	23.6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.9</b>	20.0	20.5
Base Number (BN)	mg KOH/g	ASTM D2896		<b>4.8</b>	4.5	3.8



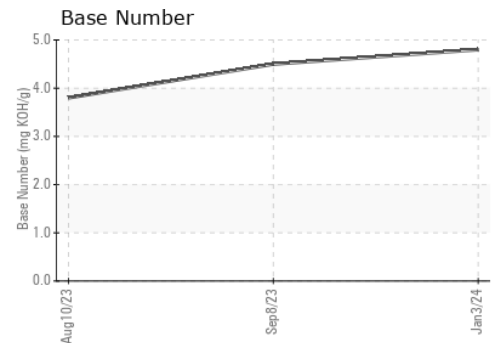
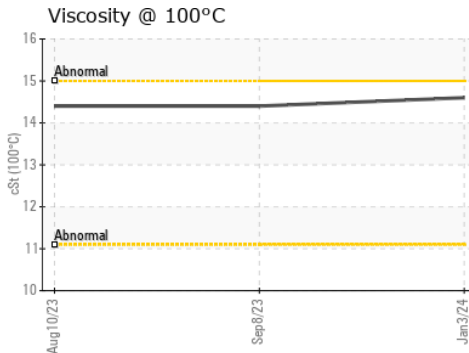
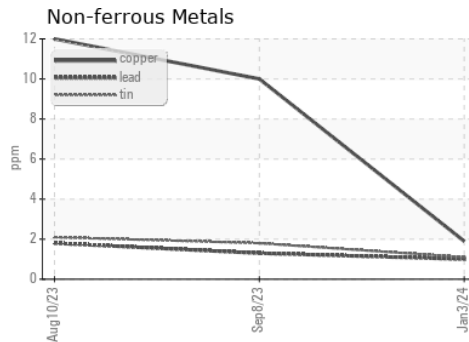
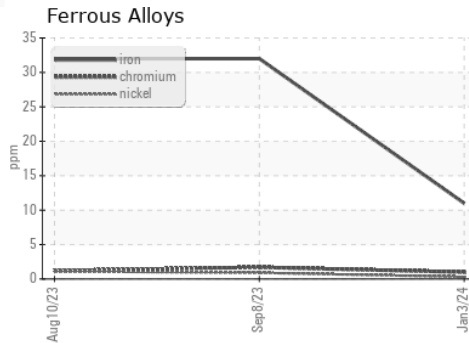
# OIL ANALYSIS REPORT



PARAMETER	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>14.6</b>	14.4	14.4

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0087454 **Received** : 04 Jan 2024  
**Lab Number** : **06051387** **Diagnosed** : 05 Jan 2024  
**Unique Number** : 10817336 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**GFL Environmental - 331 - Columbus**  
 180 Ada Moore Rd  
 Columbus, NC  
 US 28722  
 Contact: Jason Ashley  
 jashley@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: