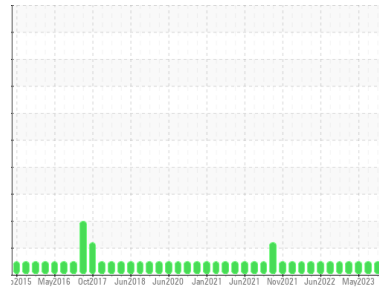




# OIL ANALYSIS REPORT

Area  
**(YA122799) GFL035**  
 Machine Id  
**2608c**  
 Component  
**Natural Gas Engine**  
 Fluid  
**RDL-3647 (12 GAL)**

Sample Rating Trend



**NORMAL**



## 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>GFL0116423</b>	GFL0116453	GFL0061164
Sample Date	Client Info		<b>25 Apr 2024</b>	01 Apr 2024	09 May 2023
Machine Age	hrs	Client Info	<b>10428</b>	10428	10428
Oil Age	hrs	Client Info	<b>600</b>	600	1024
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	N/A
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>29</b>	27	11
Chromium	ppm	ASTM D5185m >4	<b>2</b>	2	<1
Nickel	ppm	ASTM D5185m >2	<b>0</b>	<1	1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >9	<b>4</b>	4	<1
Lead	ppm	ASTM D5185m >30	<b>4</b>	<1	1
Copper	ppm	ASTM D5185m >35	<b>2</b>	2	<1
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	1
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<b>9</b>	8	32
Barium	ppm	ASTM D5185m 5	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>54</b>	54	49
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 560	<b>571</b>	566	556
Calcium	ppm	ASTM D5185m 1510	<b>1704</b>	1713	1521
Phosphorus	ppm	ASTM D5185m 780	<b>745</b>	718	768
Zinc	ppm	ASTM D5185m 870	<b>980</b>	988	945
Sulfur	ppm	ASTM D5185m 2040	<b>2869</b>	2881	2920

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>40</b>	43	8
Sodium	ppm	ASTM D5185m	<b>24</b>	24	8
Potassium	ppm	ASTM D5185m >20	<b>26</b>	22	2

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.4</b>	11.6	8.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>24.5</b>	24.0	16.9

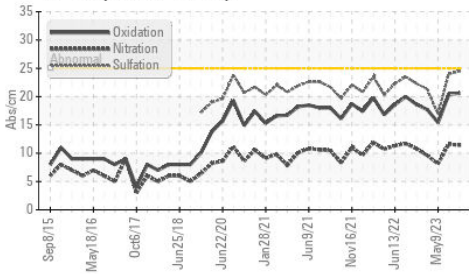
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>20.6</b>	20.4	15.4
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>3.6</b>	3.8	8.4

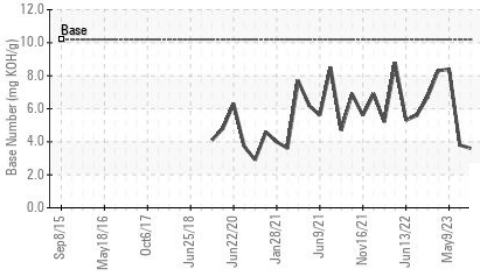


# OIL ANALYSIS REPORT

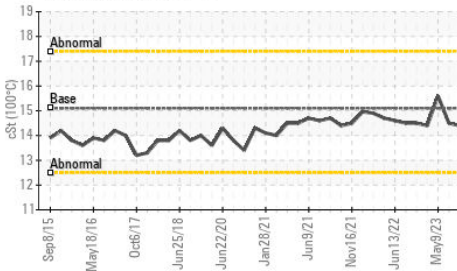
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

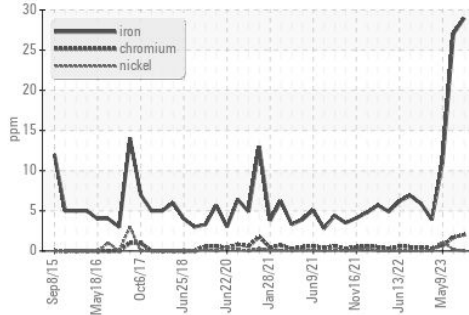


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

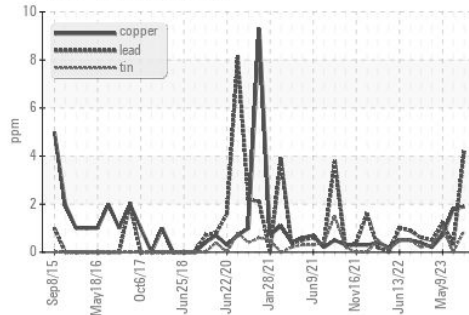
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	14.5

## GRAPHS

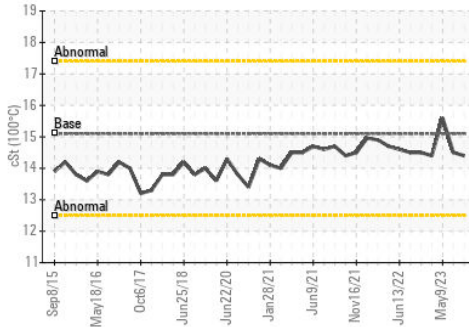
Ferrous Alloys



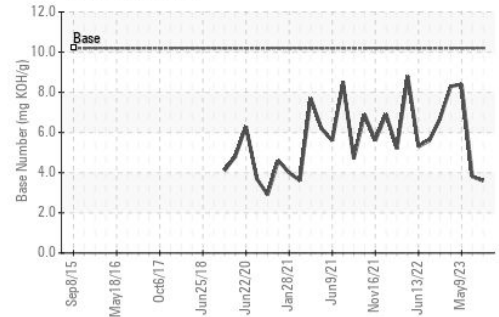
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : GFL0116423  
 Lab Number : 06161144  
 Unique Number : 10996567  
 Test Package : FLEET

Received : 26 Apr 2024  
 Tested : 26 Apr 2024  
 Diagnosed : 26 Apr 2024 - Wes Davis

GFL Environmental - 035 - Greensboro  
 1236 Elon Place  
 High Point, NC  
 US 27263  
 Contact: JORGE COSTA  
 jorge.costa@gflenv.com  
 T: (336)668-3712  
 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)