



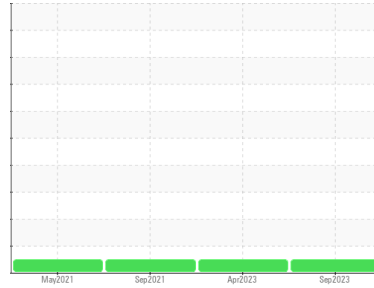
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**831030**  
Component  
**Natural Gas Engine**  
Fluid  
**RDL-3647 (28 LTR)**



## 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0091620</b>	GFL0077555	GFL0035372
Sample Date	Client Info		<b>22 Sep 2023</b>	01 Apr 2023	20 Sep 2021
Machine Age	hrs	Client Info	<b>6098</b>	4864	1056
Oil Age	hrs	Client Info	<b>0</b>	1185	1056
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	<b>16</b>	17	15
Chromium	ppm	ASTM D5185(m) >4	<b>2</b>	3	2
Nickel	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >9	<b>3</b>	3	2
Lead	ppm	ASTM D5185(m) >30	<b>7</b>	11	2
Copper	ppm	ASTM D5185(m) >35	<b>3</b>	4	4
Tin	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	1	1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 50	<b>8</b>	6	6
Barium	ppm	ASTM D5185(m) 5	<b>&lt;1</b>	0	<1
Molybdenum	ppm	ASTM D5185(m) 50	<b>59</b>	61	52
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	1	2
Magnesium	ppm	ASTM D5185(m) 560	<b>641</b>	646	584
Calcium	ppm	ASTM D5185(m) 1510	<b>1789</b>	1891	1508
Phosphorus	ppm	ASTM D5185(m) 780	<b>806</b>	873	692
Zinc	ppm	ASTM D5185(m) 870	<b>1022</b>	1019	886
Sulfur	ppm	ASTM D5185(m) 2040	<b>2014</b>	2189	1887
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >+100	<b>6</b>	6	13
Sodium	ppm	ASTM D5185(m)	<b>11</b>	13	9
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	2

## INFRA-RED

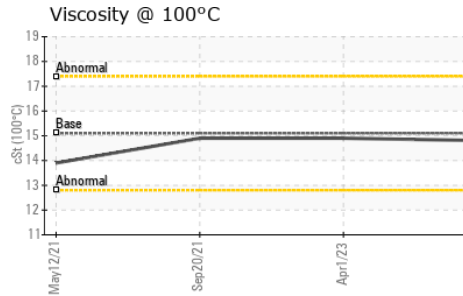
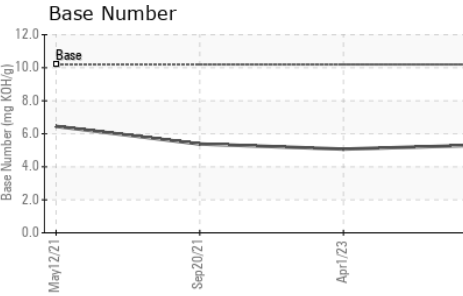
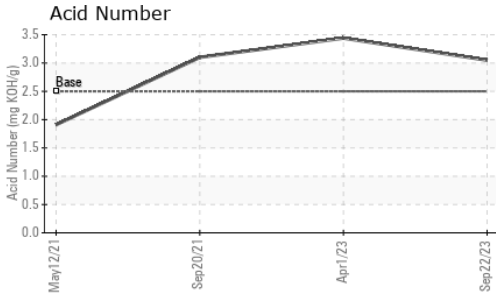
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	<b>&gt;20</b>	11.3	11.7
Sulfation	Abs/.1mm	ASTM D7415*	<b>&gt;30</b>	28.2	25.3

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	<b>&gt;25</b>	21.7	21.1
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>2.5</b>	3.44	3.10
Base Number (BN)	mg KOH/g	ASTM D2896*	<b>10.2</b>	5.07	5.38
i-pH	Scale 0-14	ASTM D7946*	<b>&lt;4.5</b>	4.72	4.68



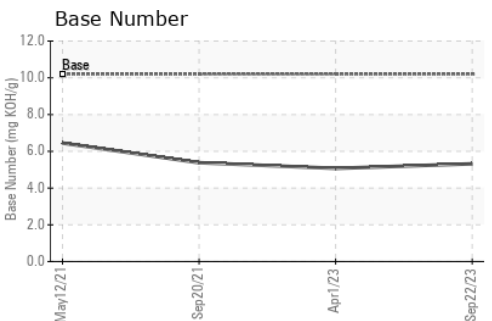
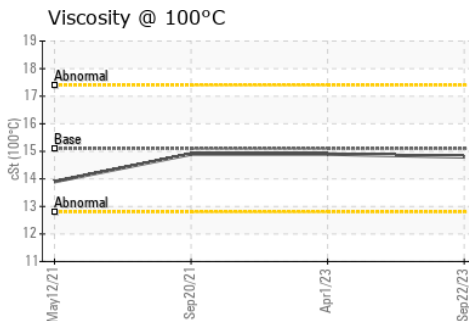
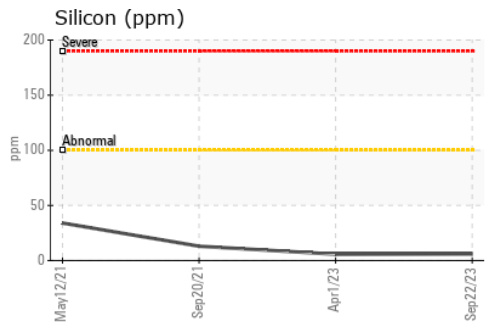
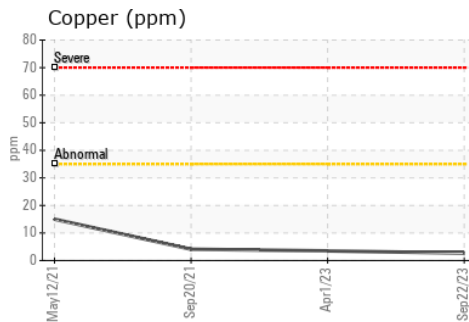
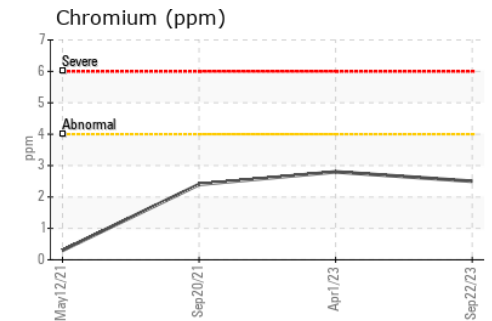
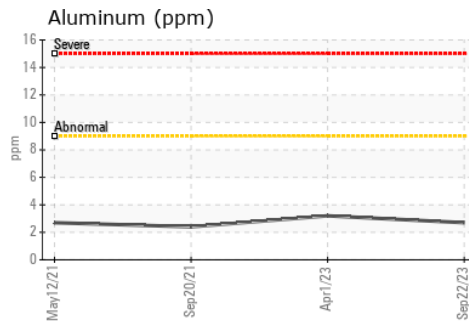
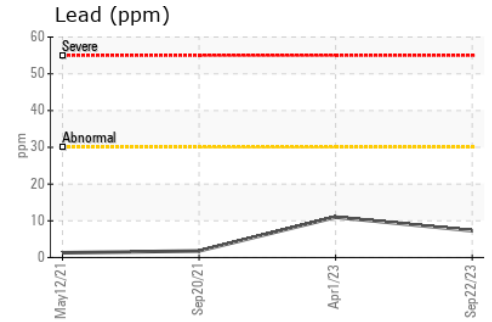
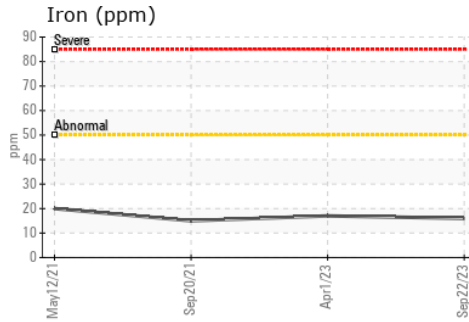
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
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 D7279(m)	15.1	14.8	14.9

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County  
**Sample No.** : GFL0091620 **Received** : 05 Oct 2023  
**Lab Number** : 02587124 **Diagnosed** : 10 Oct 2023  
**Unique Number** : 5656190 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: i-pH, TAN Auto, TAN Man )

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

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