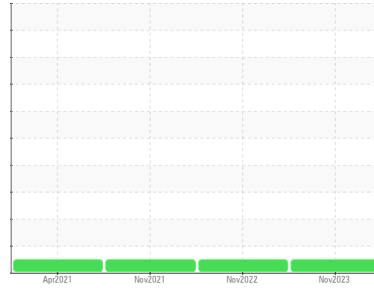




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**731000**  
 Component  
**Natural Gas Engine**  
 Fluid  
**CASTROL DURATEC ES 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### 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 condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0100764</b>	GFL0041624	GFL0031965
Sample Date	Client Info		<b>02 Nov 2023</b>	30 Nov 2022	22 Nov 2021
Machine Age	kms	Client Info	<b>92992</b>	57430	57430
Oil Age	kms	Client Info	<b>0</b>	1093	0
Oil Changed	Client Info		<b>Changed</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>50	<b>19</b>	14	17
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
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>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>30	<b>2</b>	2	1
Copper	ppm	ASTM D5185(m)	>35	<b>2</b>	2	3
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	1	1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	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)	40	<b>7</b>	9	8
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	<b>60</b>	55	58
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	2
Magnesium	ppm	ASTM D5185(m)	15	<b>622</b>	578	599
Calcium	ppm	ASTM D5185(m)	2000	<b>1785</b>	1700	1583
Phosphorus	ppm	ASTM D5185(m)	700	<b>766</b>	788	792
Zinc	ppm	ASTM D5185(m)	850	<b>1030</b>	990	1002
Sulfur	ppm	ASTM D5185(m)	2900	<b>2162</b>	2170	2118
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>4</b>	4	6
Sodium	ppm	ASTM D5185(m)		<b>4</b>	6	3
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.5</b>	11.9	12.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>26.0</b>	26.0	25.7

## FLUID DEGRADATION

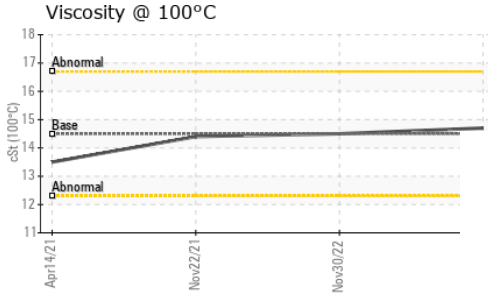
	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>21.7</b>	20.8	19.8

## VISUAL

	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

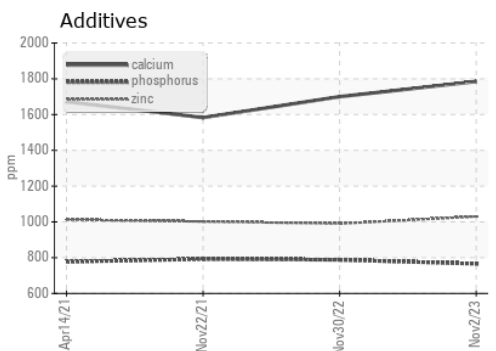
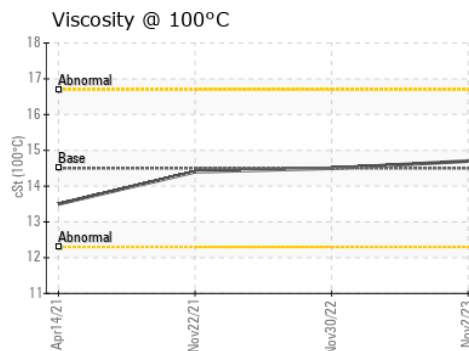
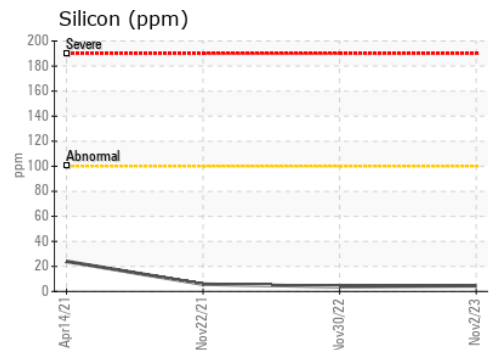
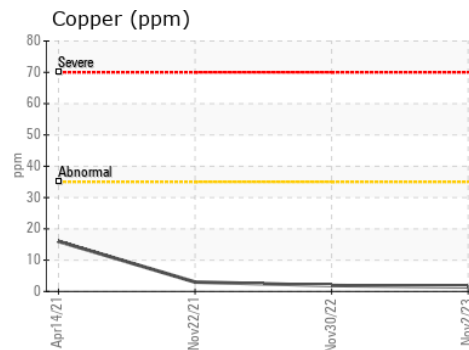
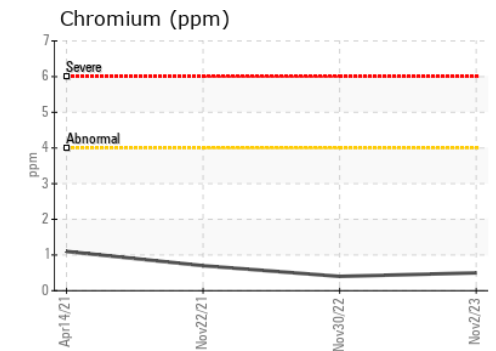
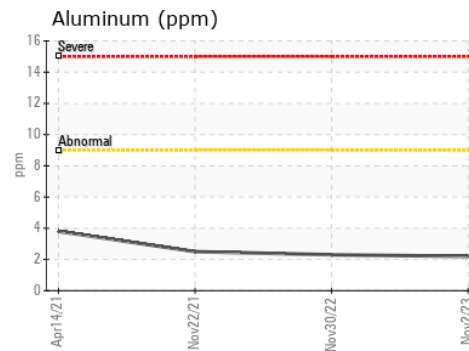
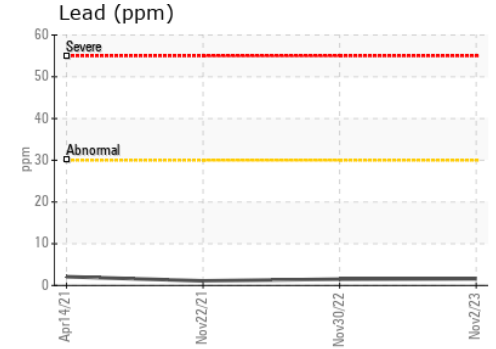
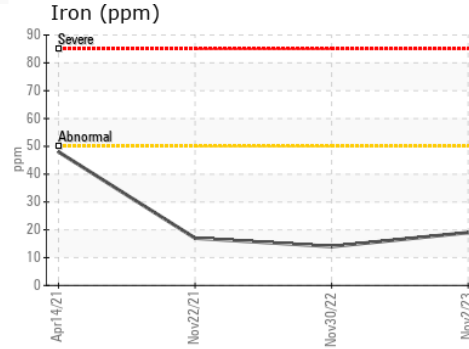


# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	<b>14.7</b>	14.5	14.4

## GRAPHS



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 277 - Niagara Regional  
**Sample No.** : GFL0100764 **Received** : 03 Nov 2023 C/O Metro Truck Niagara Inc., 411 Glendale Avenue  
**Lab Number** : 02593875 **Diagnosed** : 03 Nov 2023 St. Catharines, ON  
**Unique Number** : 5670954 **Diagnostician** : Wes Davis CA L2P 3Y1  
**Test Package** : MOB 1

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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 F: