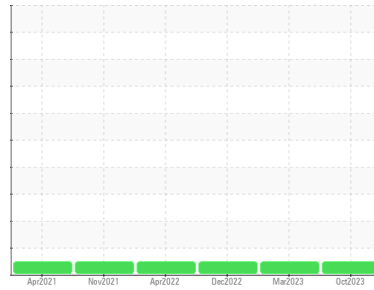




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**731024**  
Component  
**Natural Gas Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. 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

Additive levels indicate the addition of a different brand, or type of oil. 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>GFL0079589</b>	GFL0041648	GFL0041622
Sample Date	Client Info		<b>20 Oct 2023</b>	20 Mar 2023	06 Dec 2022
Machine Age	kms	Client Info	<b>64090</b>	52342	46957
Oil Age	kms	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	Changed	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	<b>11</b>	8	11
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	<1
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >9	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m) >30	<b>1</b>	<1	1
Copper	ppm	ASTM D5185(m) >35	<b>1</b>	1	1
Tin	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	<1
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) 0	<b>7</b>	10	9
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 60	<b>57</b>	50	54
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 1010	<b>592</b>	527	583
Calcium	ppm	ASTM D5185(m) 1070	<b>1726</b>	1551	1663
Phosphorus	ppm	ASTM D5185(m) 1150	<b>707</b>	754	786
Zinc	ppm	ASTM D5185(m) 1270	<b>996</b>	902	959
Sulfur	ppm	ASTM D5185(m) 2060	<b>2090</b>	2087	2102
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>	3	4
Sodium	ppm	ASTM D5185(m)	<b>3</b>	3	3
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1

## 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>	7.4	9.5
Sulfation	Abs/.1mm	ASTM D7415*	<b>&gt;30</b>	18.8	21.9

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	<b>&gt;25</b>	11.4	16.1

## VISUAL

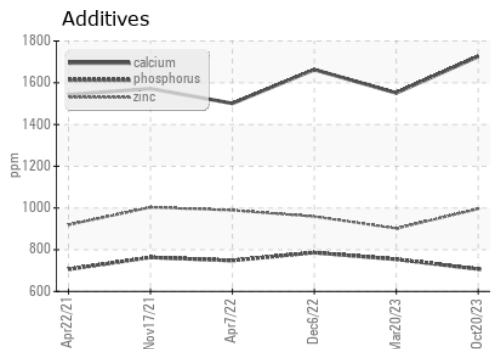
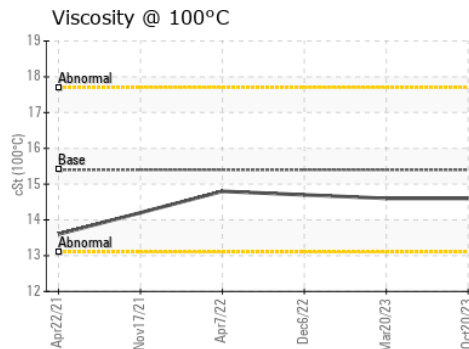
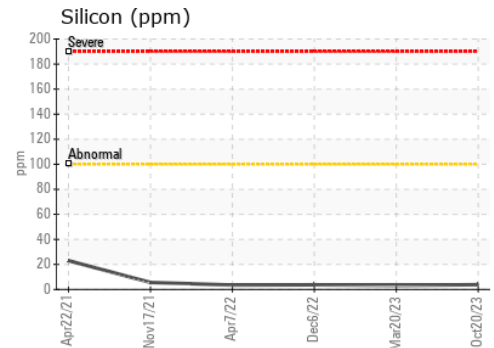
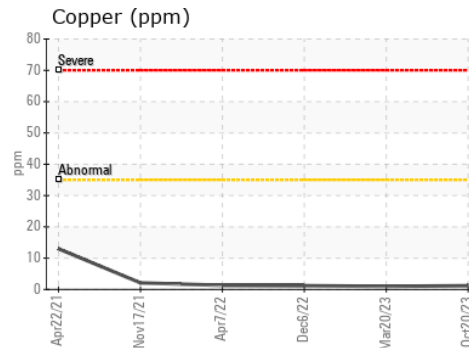
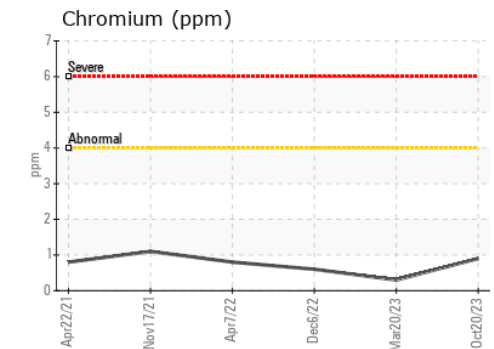
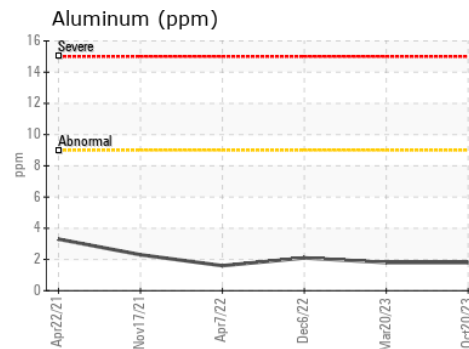
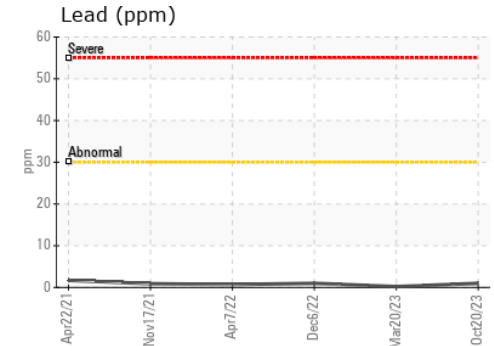
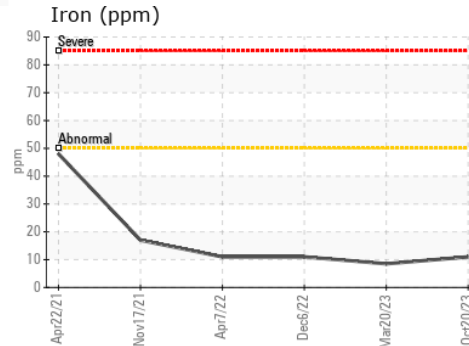
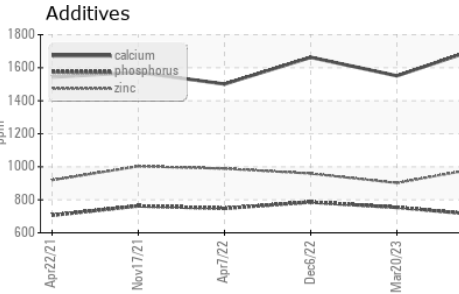
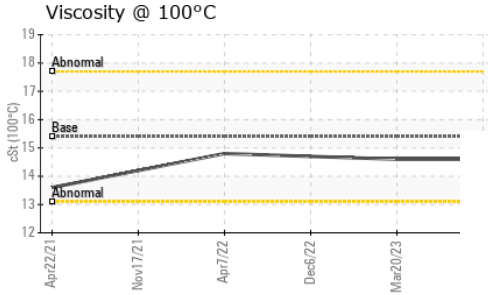
	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	<b>&gt;0.1</b>	<b>NEG</b>	NEG
Free Water	scalar	Visual*	<b>NEG</b>	NEG	NEG



# OIL ANALYSIS REPORT

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.6</b>	14.6	14.7

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 277 - Niagara Regional**  
**Sample No.** : GFL0079589 **Received** : 24 Oct 2023 C/O Metro Truck Niagara Inc., 411 Glendale Avenue  
**Lab Number** : 02591257 **Diagnosed** : 24 Oct 2023 St. Catharines, ON  
**Unique Number** : 5668336 **Diagnostician** : Kevin Marson 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: