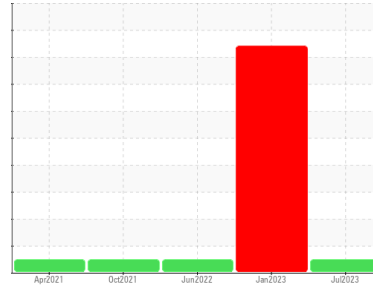




# OIL ANALYSIS REPORT

## Sample Rating Trend

**NORMAL**



Machine Id  
**731012**  
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

All component wear rates are normal.

### Contamination

Test for glycol is negative. 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>GFL0079577</b>	GFL0041619	GFL0041638
Sample Date	Client Info		<b>05 Jul 2023</b>	03 Jan 2023	07 Jun 2022
Machine Age	hrs	Client Info	<b>78725</b>	78725	3265
Oil Age	hrs	Client Info	<b>78725</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	Changed	N/A
Sample Status			<b>NORMAL</b>	SEVERE	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	<b>19</b>	18	21
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>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >9	<b>1</b>	4	2
Lead	ppm	ASTM D5185(m) >30	<b>&lt;1</b>	4	2
Copper	ppm	ASTM D5185(m) >35	<b>3</b>	2	2
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) 0	<b>8</b>	5	5
Barium	ppm	ASTM D5185(m) 0	<b>5</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 60	<b>52</b>	68	57
Manganese	ppm	ASTM D5185(m) 0	<b>3</b>	1	2
Magnesium	ppm	ASTM D5185(m) 1010	<b>538</b>	650	598
Calcium	ppm	ASTM D5185(m) 1070	<b>1491</b>	1728	1577
Phosphorus	ppm	ASTM D5185(m) 1150	<b>676</b>	899	758
Zinc	ppm	ASTM D5185(m) 1270	<b>892</b>	1018	976
Sulfur	ppm	ASTM D5185(m) 2060	<b>1958</b>	2172	2106
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>14</b>	7	4
Sodium	ppm	ASTM D5185(m)	<b>5</b>	▲ 63	5
Potassium	ppm	ASTM D5185(m) >20	<b>29</b>	▲ 540	2
Glycol	%	ASTM D7922*	<b>0.0</b>	● 0.355	---

## INFRA-RED

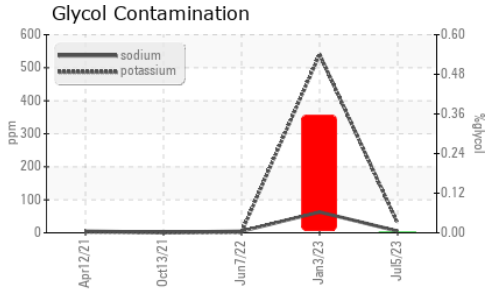
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	<b>11.1</b>	8.2	12.2
Sulfation	Abs/.1mm	ASTM D7415*	<b>22.3</b>	20.4	28.3

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	<b>18.4</b>	12.8	21.7



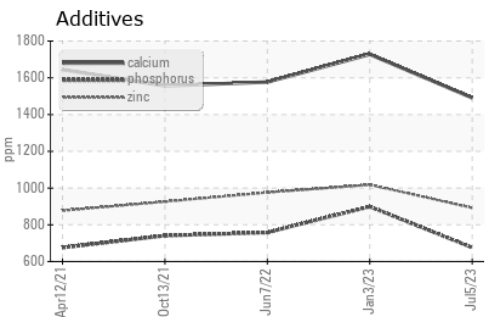
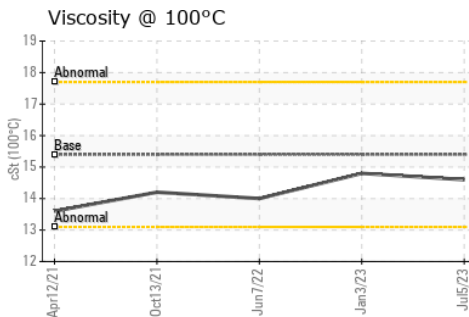
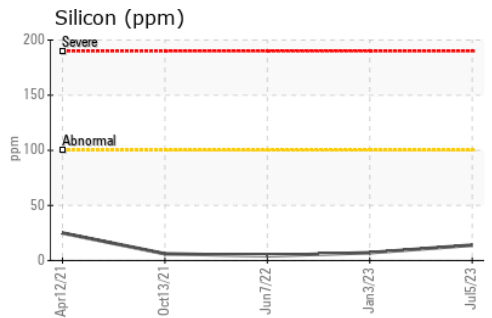
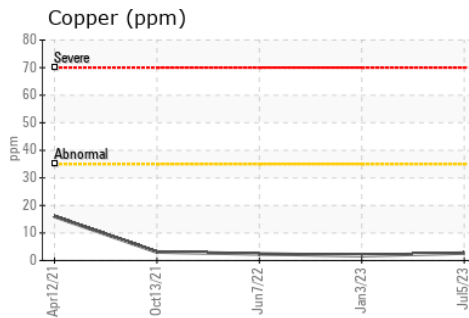
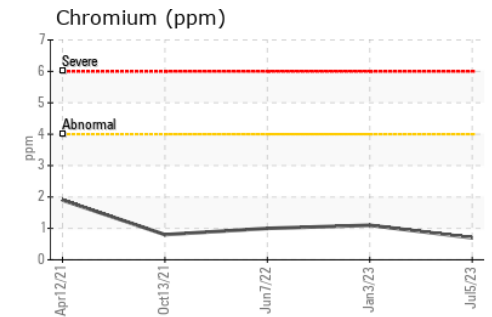
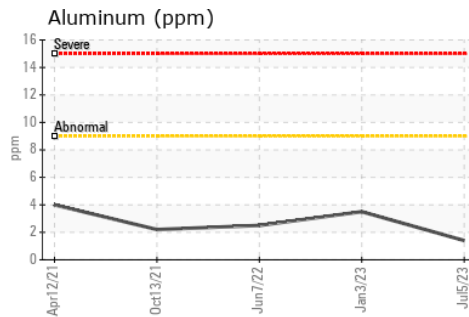
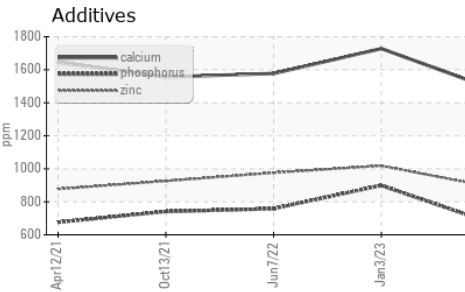
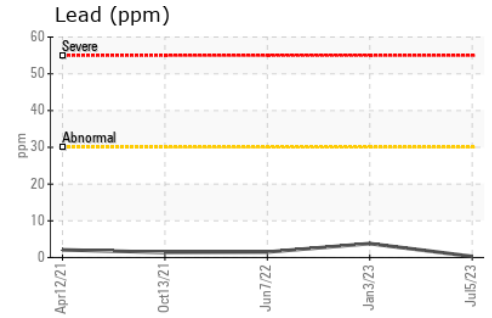
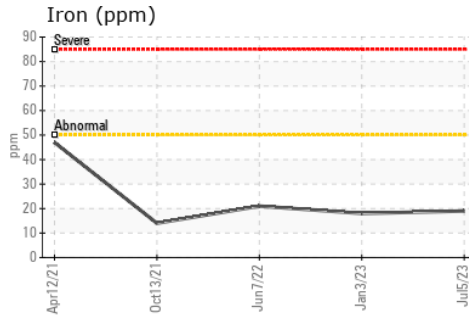
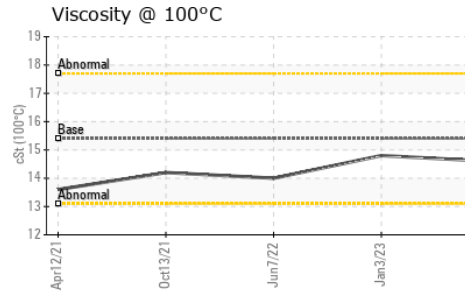
# OIL ANALYSIS REPORT



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)	15.4	14.6	14.8

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 277 - Niagara Regional  
**Sample No.** : GFL0079577 **Received** : 17 Jul 2023  
**Lab Number** : 02570372 **Diagnosed** : 19 Jul 2023  
**Unique Number** : 5607418 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1

C/O Metro Truck Niagara Inc., 411 Glendale Avenue  
 St. Catharines, ON  
 CA L2P 3Y1  
 Contact: Kelly Bremner  
 kbremner@gflenv.com  
 T: (437)235-6849  
 F:

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.