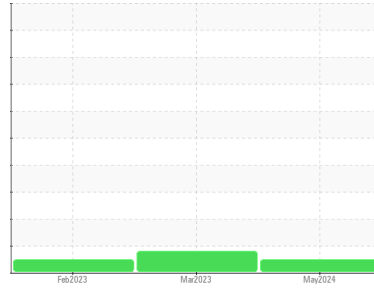




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

## INTERNATIONAL 520052

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON SAE 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>GFL0122268</b>	GFL0071129	GFL0071108
Sample Date	Client Info		<b>09 May 2024</b>	03 Mar 2023	01 Feb 2023
Machine Age	kms	Client Info	<b>14479</b>	881464	846726
Oil Age	kms	Client Info	<b>317</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	ABNORMAL	NORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>2.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	<b>83</b>	39	11
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	4	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	0
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)	>20	<b>28</b>	22	4
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</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)	1	<b>3</b>	2	3
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>60</b>	62	59
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>916</b>	1011	983
Calcium	ppm	ASTM D5185(m)	1070	<b>1043</b>	1128	1140
Phosphorus	ppm	ASTM D5185(m)	1150	<b>966</b>	1099	1074
Zinc	ppm	ASTM D5185(m)	1270	<b>1164</b>	1248	1222
Sulfur	ppm	ASTM D5185(m)	2060	<b>2477</b>	2568	2587
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

### CONTAMINANTS

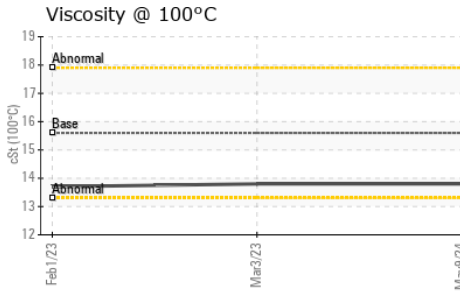
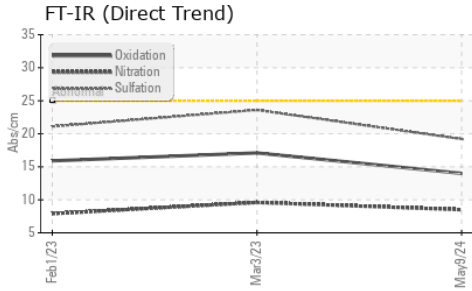
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>26</b>	4	3
Sodium	ppm	ASTM D5185(m)		<b>4</b>	6	2
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	0	<1

### INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0.5</b>	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.5</b>	9.6	7.9
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>19.2</b>	23.6	21.1



# OIL ANALYSIS REPORT

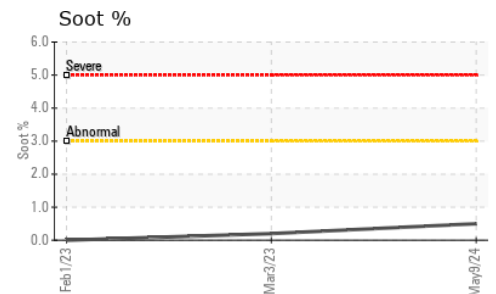
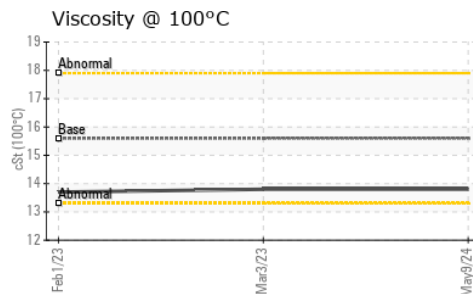
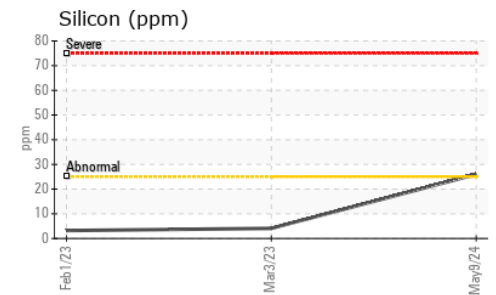
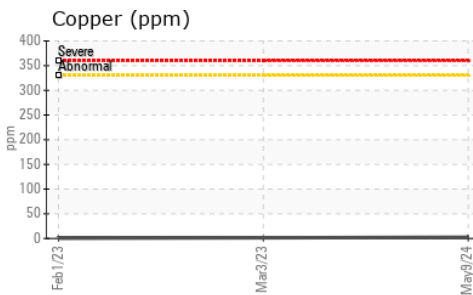
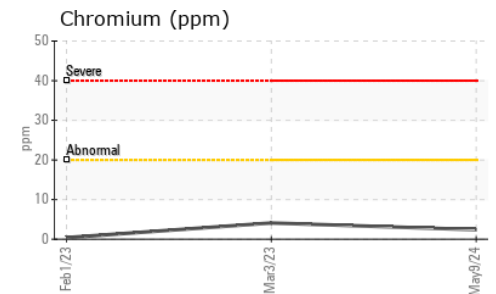
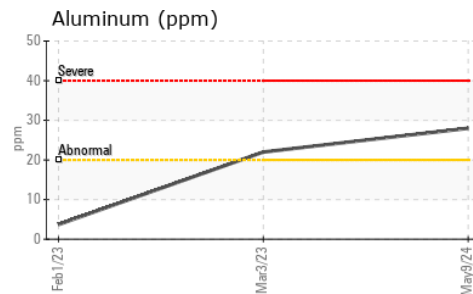
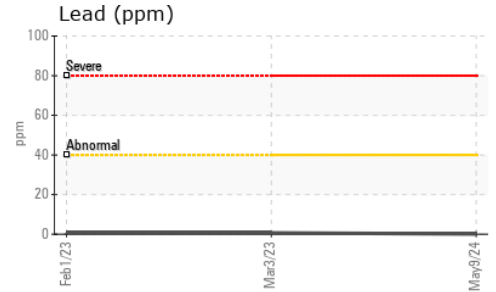
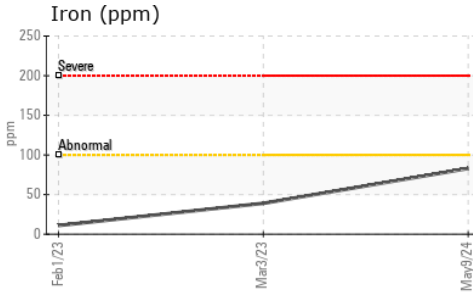


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/1mm	ASTM D7414*	>25	<b>14.0</b>	17.1	15.9

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>13.8</b>	13.8	13.7

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 987 - Charlottetown**  
**Sample No.** : GFL0122268 **Received** : 24 May 2024 7 Superior Crescent  
**Lab Number** : **02637364** **Tested** : 24 May 2024 Charlottetown, PE  
**Unique Number** : 5786526 **Diagnosed** : 24 May 2024 - Wes Davis CA C1A 7N5  
**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.