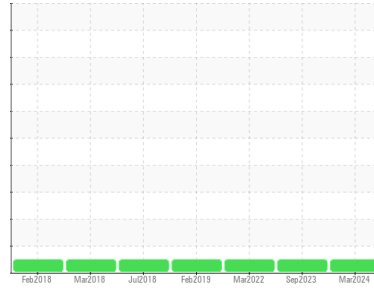




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**901013**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- GAL)**

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

## SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	<b>GFL0102678</b>	GFL0090592	GFL0041497	
Sample Date	Client Info	<b>18 Mar 2024</b>	17 Sep 2023	22 Mar 2022	
Machine Age	hrs	Client Info	<b>0</b>	0	18957
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>Changed</b>	N/A	Changed	
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL	

## CONTAMINATION

method	limit/base	current	history1	history2	
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185(m)	>50	<b>17</b>	16	45
Chromium	ppm	ASTM D5185(m)	>4	<b>1</b>	1	4
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>1</b>	2	5
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	11
Copper	ppm	ASTM D5185(m)	>35	<b>1</b>	<1	4
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	2
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)	50	<b>23</b>	29	12
Barium	ppm	ASTM D5185(m)	5	<b>10</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>51</b>	49	69
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	2
Magnesium	ppm	ASTM D5185(m)	560	<b>548</b>	550	702
Calcium	ppm	ASTM D5185(m)	1510	<b>1555</b>	1503	1969
Phosphorus	ppm	ASTM D5185(m)	780	<b>707</b>	769	968
Zinc	ppm	ASTM D5185(m)	870	<b>850</b>	849	1142
Sulfur	ppm	ASTM D5185(m)	2040	<b>1897</b>	1944	2209
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>10</b>	6	7
Sodium	ppm	ASTM D5185(m)		<b>34</b>	11	13
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	2

## INFRA-RED

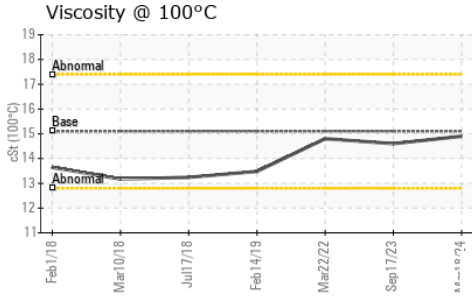
method	limit/base	current	history1	history2		
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.3</b>	8.1	5.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.7</b>	18.8	17.3

## FLUID DEGRADATION

method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.7</b>	16.0	9.3



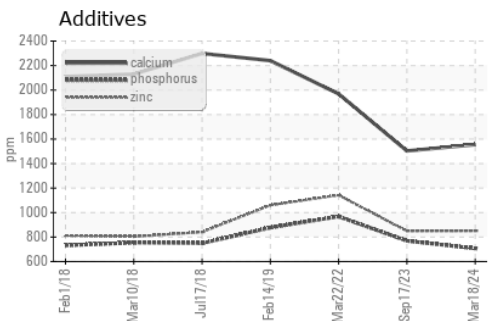
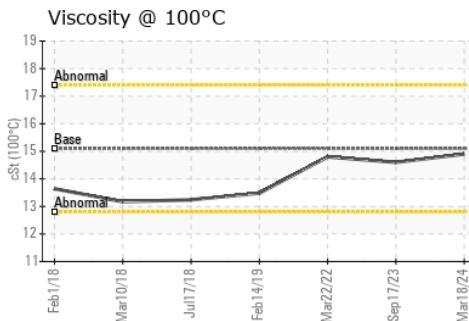
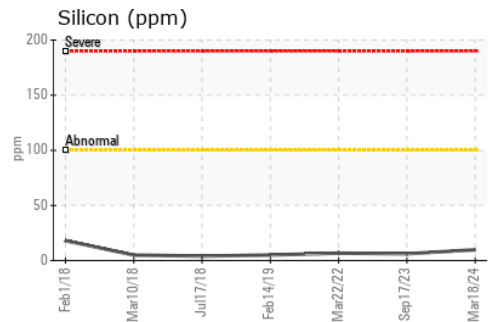
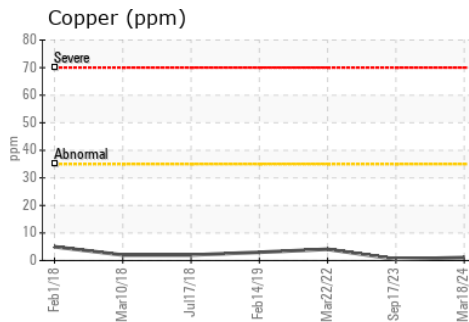
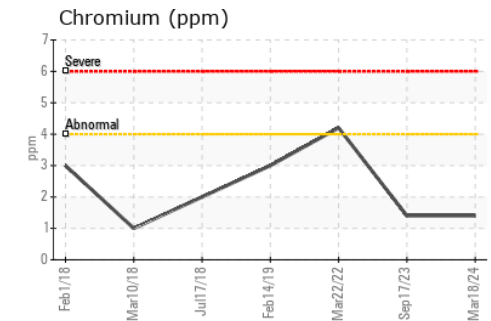
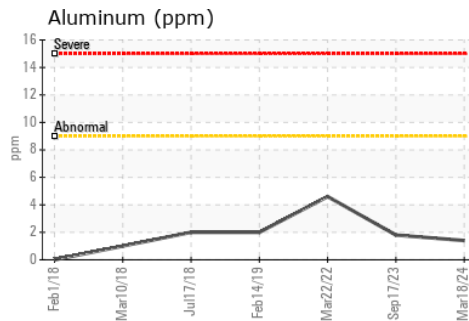
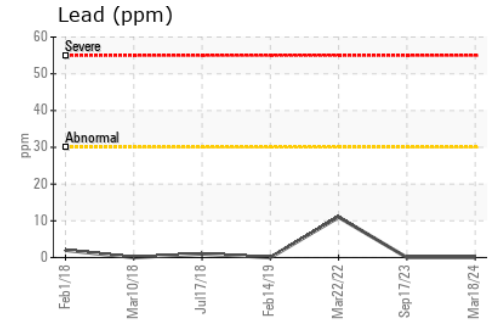
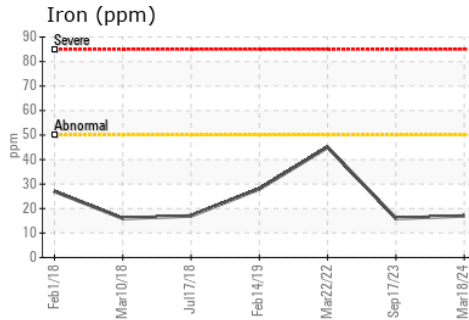
# OIL ANALYSIS REPORT



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	14.9	14.6

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 554 - Edmonton SW**  
**Sample No.** : GFL0102678 **Received** : 27 Mar 2024 **8409 - 15th Street NW**  
**Lab Number** : 02624845 **Tested** : 27 Mar 2024 **Edmonton, AB**  
**Unique Number** : 5749964 **Diagnosed** : 27 Mar 2024 - Wes Davis **CA T6P 0B8**  
**Test Package** : MOB 1 **Contact:** Tim Greig **tgreig@gflenv.com**  
**T: (780)231-0521**  
**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.