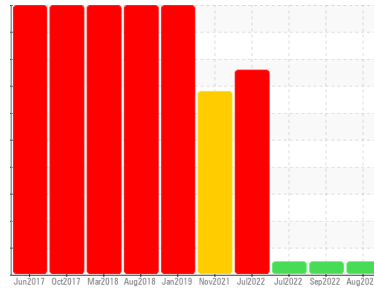




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**9259**  
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>GFL0090633</b>	GFL0059983	GFL0054187
Sample Date	Client Info	<b>09 Aug 2023</b>	19 Sep 2022	13 Jul 2022
Machine Age	hrs	<b>18087</b>	0	16226
Oil Age	hrs	<b>0</b>	0	10
Oil Changed	Client Info	<b>Changed</b>	Changed	Not Changed
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	---	---	---

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >50	<b>30</b>	34	18
Chromium	ppm	ASTM D5185(m) >5	<b>2</b>	2	<1
Nickel	ppm	ASTM D5185(m) >4	<b>1</b>	1	<1
Titanium	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >25	<b>4</b>	6	4
Lead	ppm	ASTM D5185(m) >40	<b>&lt;1</b>	1	<1
Copper	ppm	ASTM D5185(m) >150	<b>4</b>	8	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) 50	<b>7</b>	8	29
Barium	ppm	ASTM D5185(m) 5	<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 50	<b>54</b>	52	49
Manganese	ppm	ASTM D5185(m) 0	<b>5</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 560	<b>523</b>	536	552
Calcium	ppm	ASTM D5185(m) 1510	<b>1605</b>	1531	1556
Phosphorus	ppm	ASTM D5185(m) 780	<b>678</b>	771	739
Zinc	ppm	ASTM D5185(m) 870	<b>898</b>	867	864
Sulfur	ppm	ASTM D5185(m) 2040	<b>1957</b>	2006	2133
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>17</b>	15	5
Sodium	ppm	ASTM D5185(m)	<b>4</b>	4	5
Potassium	ppm	ASTM D5185(m) >20	<b>2</b>	5	4

## INFRA-RED

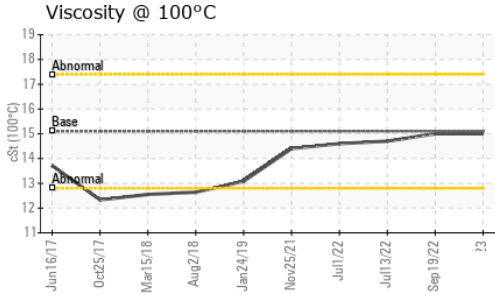
method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	<b>&gt;20</b>	11.6	7.2
Sulfation	Abs.1mm	ASTM D7415*	<b>&gt;30</b>	21.0	20.8

## FLUID DEGRADATION

method	limit/base	current	history1	history2		
Oxidation	Abs.1mm	ASTM D7414*	<b>&gt;25</b>	17.7	18.9	16.8



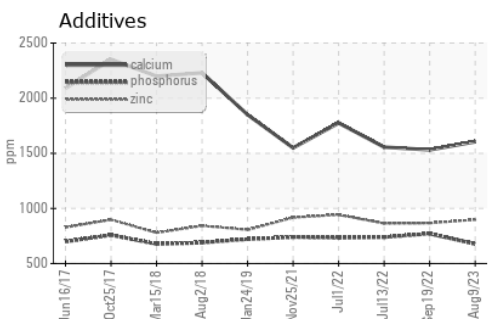
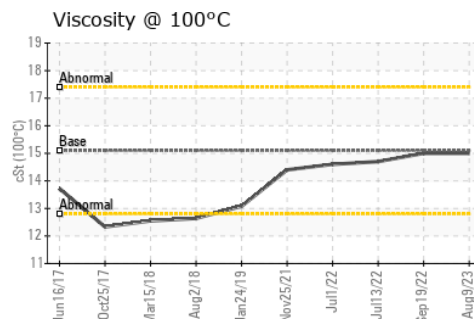
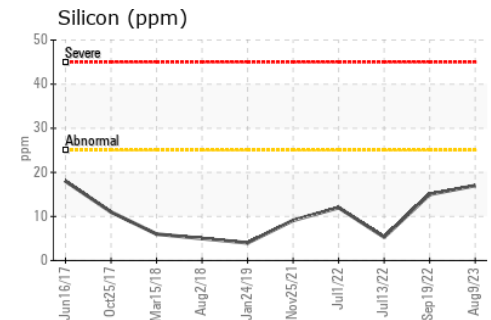
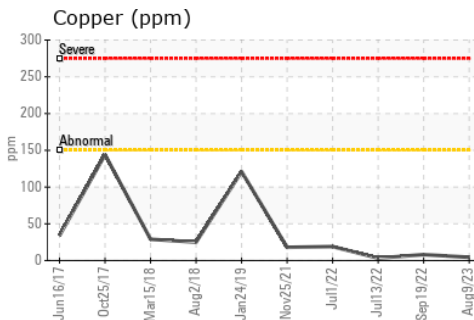
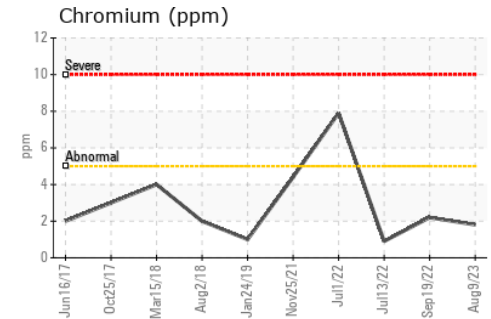
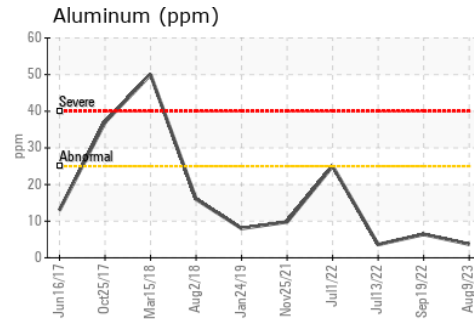
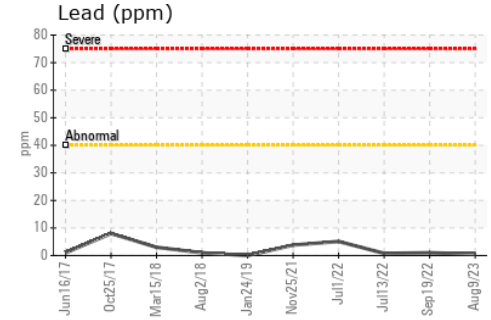
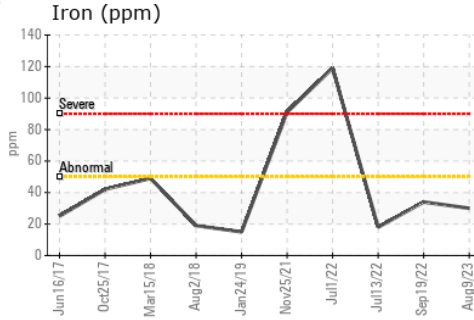
# OIL ANALYSIS REPORT



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	15.0	14.7

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 554 - Edmonton SW**  
**Sample No.** : GFL0090633 **Received** : 21 Aug 2023 **8409 -15th Street NW**  
**Lab Number** : **02577036** **Diagnosed** : 21 Aug 2023 **Edmonton, AB**  
**Unique Number** : 5630096 **Diagnostician** : Wes Davis **CA T6P 0B8**  
**Test Package** : MOB 1 **Contact:** Tim Greig **tgreig@gflenv.com**

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.