



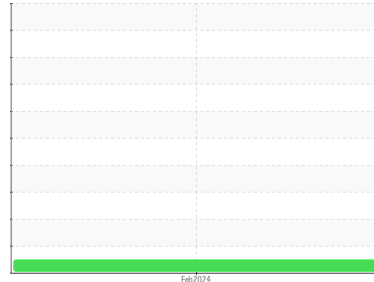
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**833071**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (24 LTR)**



## DIAGNOSIS

### Recommendation

Please note that all wear metal and contaminant levels are being considered accumulative. 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>GFL0086783</b>	---	---
Sample Date	Client Info		<b>08 Feb 2024</b>	---	---
Machine Age	hrs	Client Info	<b>1283</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>0</b>	---	---
Iron	ppm	ASTM D5185(m) >50	<b>53</b>	---	---
Chromium	ppm	ASTM D5185(m) >4	<b>1</b>	---	---
Nickel	ppm	ASTM D5185(m) >2	<b>2</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m) >9	<b>5</b>	---	---
Lead	ppm	ASTM D5185(m) >30	<b>2</b>	---	---
Copper	ppm	ASTM D5185(m) >35	<b>15</b>	---	---
Tin	ppm	ASTM D5185(m) >4	<b>2</b>	---	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 50	<b>7</b>	---	---
Barium	ppm	ASTM D5185(m) 5	<b>2</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 50	<b>91</b>	---	---
Manganese	ppm	ASTM D5185(m) 0	<b>9</b>	---	---
Magnesium	ppm	ASTM D5185(m) 560	<b>671</b>	---	---
Calcium	ppm	ASTM D5185(m) 1510	<b>1478</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 780	<b>733</b>	---	---
Zinc	ppm	ASTM D5185(m) 870	<b>879</b>	---	---
Sulfur	ppm	ASTM D5185(m) 2040	<b>2200</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >+100	<b>23</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>4</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>2</b>	---	---

## INFRA-RED

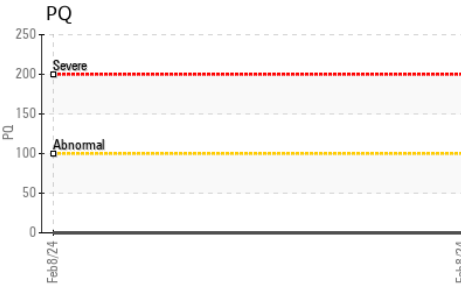
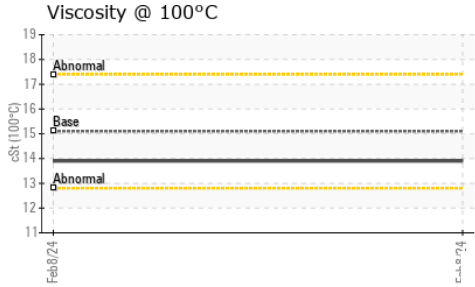
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.8</b>	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.2</b>	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.8</b>	---



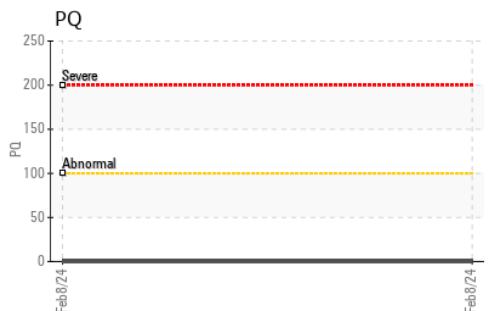
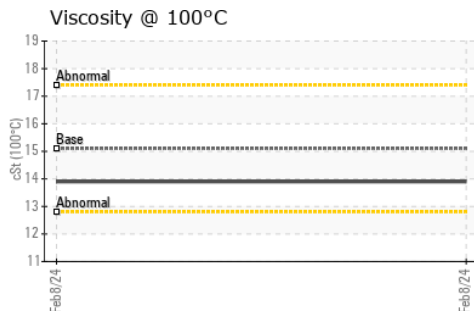
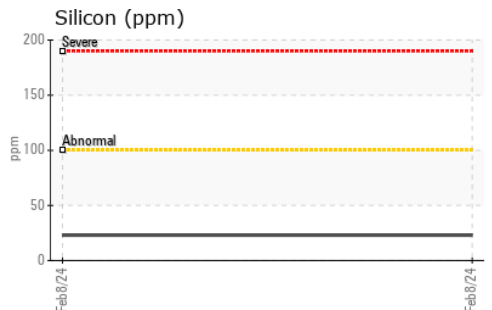
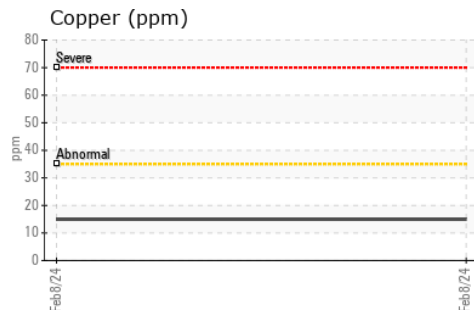
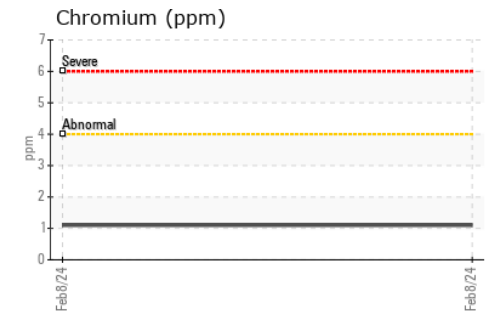
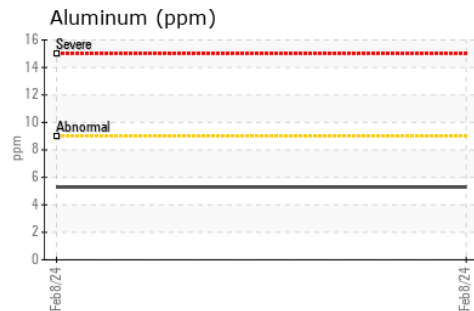
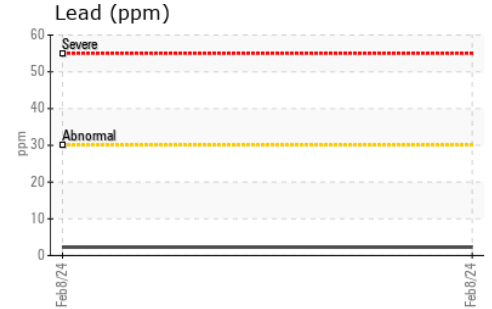
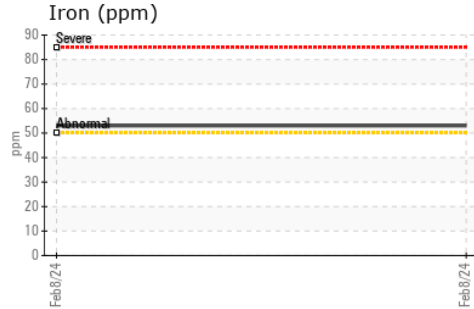
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	13.9	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0086783  
**Lab Number** : 02614635  
**Unique Number** : 5723730  
**Test Package** : MOB 1 ( Additional Tests: PQ )

**GFL Environmental - 222 - Sandhill**  
 SANDHILL DISPOSAL & RECYCLING DIVIS, 19 COMMERCE ROAD  
 ORANGEVILLE, ON  
 CA L9W 3X5  
 Contact: GLENN COOK  
 gcook@gflenv.com  
 T: (519)940-4167  
 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.