



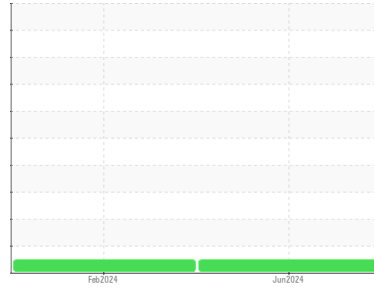
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**833064**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (24 LTR)**



## 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>GFL0118934</b>	GFL0086782	---
Sample Date	Client Info		<b>24 Jun 2024</b>	08 Feb 2024	---
Machine Age	hrs	Client Info	<b>1866</b>	1179	---
Oil Age	hrs	Client Info	<b>1200</b>	1179	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	<b>17</b>	61	---
Chromium	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	2	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Silver	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185(m) >9	<b>2</b>	5	---
Lead	ppm	ASTM D5185(m) >30	<b>&lt;1</b>	2	---
Copper	ppm	ASTM D5185(m) >35	<b>4</b>	16	---
Tin	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	2	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 50	<b>6</b>	6	---
Barium	ppm	ASTM D5185(m) 5	<b>&lt;1</b>	3	---
Molybdenum	ppm	ASTM D5185(m) 50	<b>59</b>	98	---
Manganese	ppm	ASTM D5185(m) 0	<b>2</b>	11	---
Magnesium	ppm	ASTM D5185(m) 560	<b>571</b>	684	---
Calcium	ppm	ASTM D5185(m) 1510	<b>1531</b>	1487	---
Phosphorus	ppm	ASTM D5185(m) 780	<b>679</b>	732	---
Zinc	ppm	ASTM D5185(m) 870	<b>912</b>	883	---
Sulfur	ppm	ASTM D5185(m) 2040	<b>1960</b>	2261	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >+100	<b>6</b>	24	---
Sodium	ppm	ASTM D5185(m)	<b>3</b>	4	---
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	2	---

## INFRA-RED

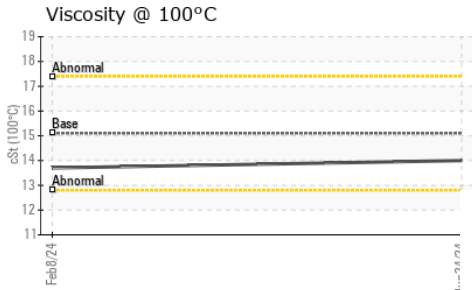
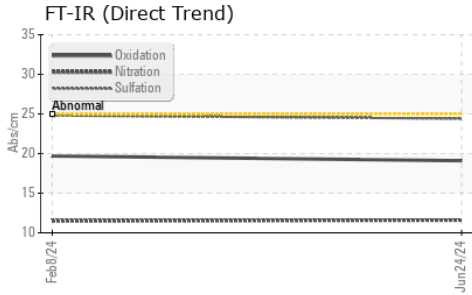
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	<b>11.6</b>	11.5	---
Sulfation	Abs/.1mm	ASTM D7415*	<b>24.4</b>	24.8	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	<b>19.1</b>	19.7	---



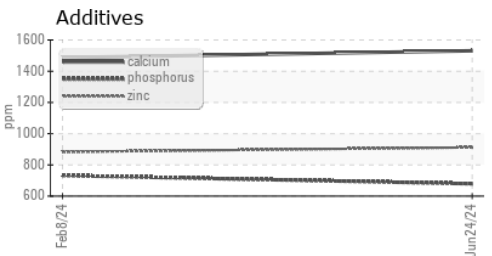
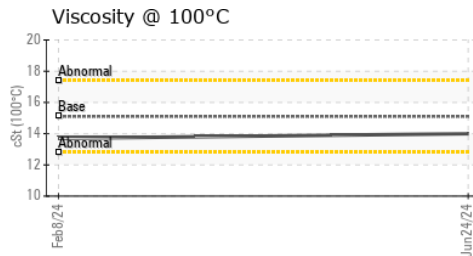
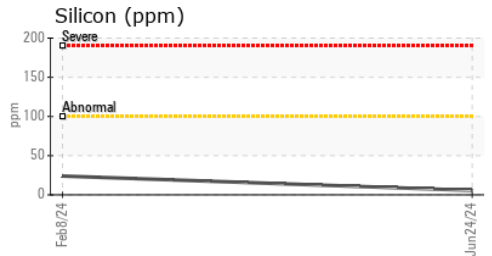
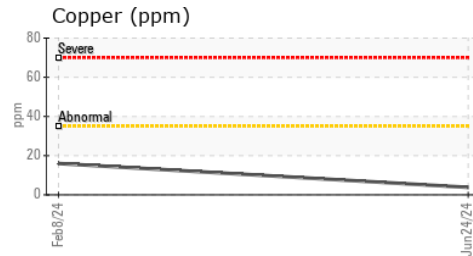
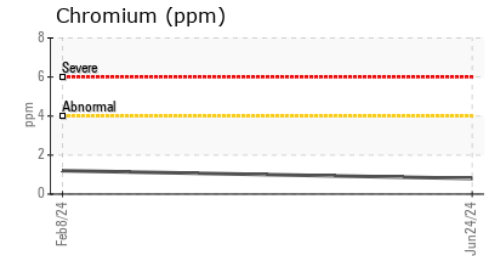
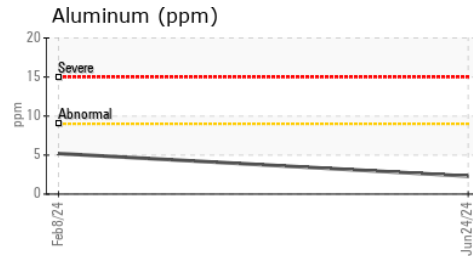
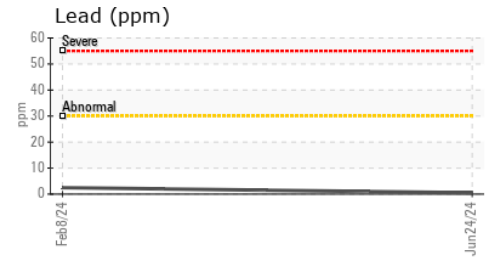
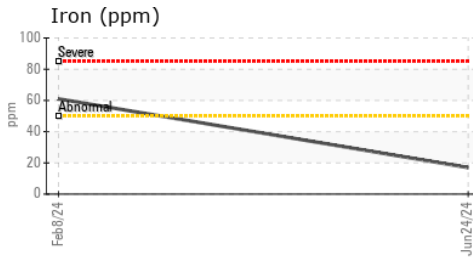
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	---	---
Precipitate	scalar	Visual*	NONE	---	---
Silt	scalar	Visual*	NONE	---	---
Debris	scalar	Visual*	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	---	---
Appearance	scalar	Visual*	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---
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	14.0	13.7

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0118934  
**Lab Number** : 02644013  
**Unique Number** : 5801552  
**Test Package** : MOB 1 ( Additional Tests: Visual )  
**Received** : 25 Jun 2024  
**Tested** : 25 Jun 2024  
**Diagnosed** : 25 Jun 2024 - Wes Davis

**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.