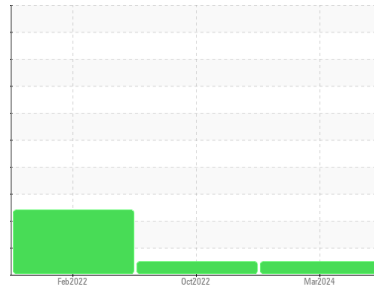




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**731126**  
 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>GFL0080096</b>	GFL0044747	GFL0021656
Sample Date	Client Info		<b>31 Mar 2024</b>	30 Oct 2022	20 Feb 2022
Machine Age	hrs	Client Info	<b>6377</b>	3512	2149
Oil Age	hrs	Client Info	<b>600</b>	1200	600
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

## 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>5</b>	23	73
Chromium	ppm	ASTM D5185(m) >4	<b>0</b>	2	3
Nickel	ppm	ASTM D5185(m) >2	<b>0</b>	1	2
Titanium	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >9	<b>&lt;1</b>	3	5
Lead	ppm	ASTM D5185(m) >30	<b>&lt;1</b>	2	5
Copper	ppm	ASTM D5185(m) >35	<b>&lt;1</b>	3	14
Tin	ppm	ASTM D5185(m) >4	<b>0</b>	<1	3
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	<1
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>33</b>	2	9
Barium	ppm	ASTM D5185(m) 5	<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185(m) 50	<b>49</b>	72	83
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	1	8
Magnesium	ppm	ASTM D5185(m) 560	<b>526</b>	1048	726
Calcium	ppm	ASTM D5185(m) 1510	<b>1507</b>	1288	1535
Phosphorus	ppm	ASTM D5185(m) 780	<b>713</b>	1080	879
Zinc	ppm	ASTM D5185(m) 870	<b>857</b>	1351	1030
Sulfur	ppm	ASTM D5185(m) 2040	<b>1965</b>	2544	2219
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>4</b>	4	21
Sodium	ppm	ASTM D5185(m)	<b>5</b>	3	6
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	0	3

## INFRA-RED

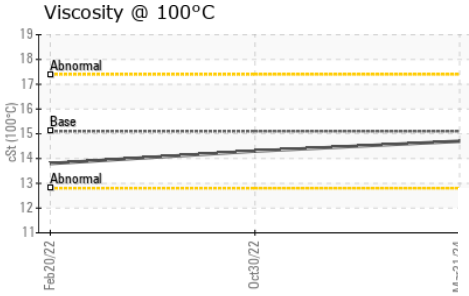
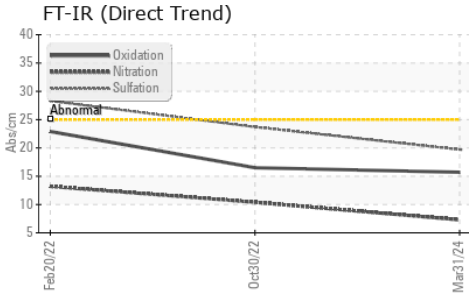
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624* >20	<b>7.3</b>	10.4	13.2
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>19.7</b>	23.7	28.3

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	<b>15.7</b>	16.5	22.9



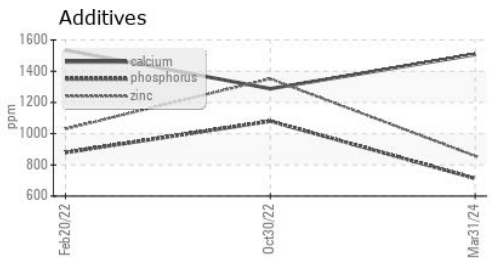
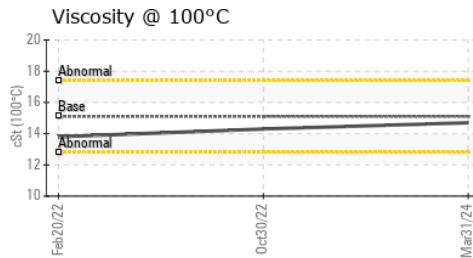
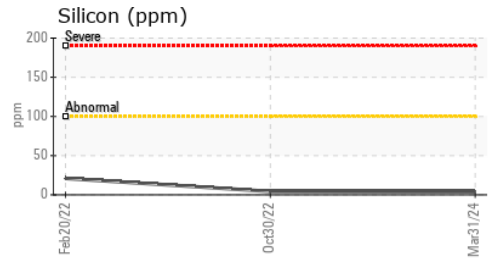
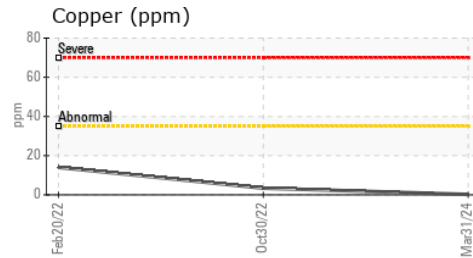
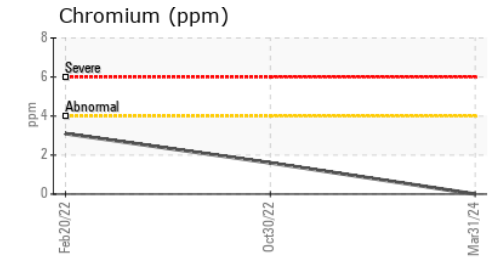
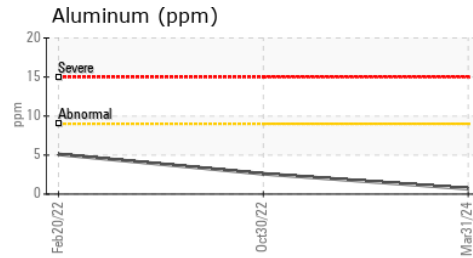
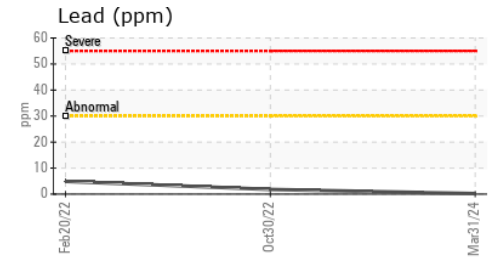
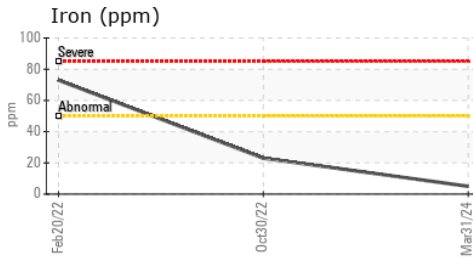
# OIL ANALYSIS REPORT



PARAMETER	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	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	---	---
Appearance	scalar	Visual*	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML
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	14.7	14.3

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0080096  
**Lab Number** : 02636844  
**Unique Number** : 5786006  
**Test Package** : MOB 1 ( Additional Tests: Visual )  
**Received** : 22 May 2024  
**Tested** : 22 May 2024  
**Diagnosed** : 22 May 2024 - Wes Davis

**GFL Environmental - 577 - First Class**  
 8540 Chilliwack Mountain Rd,  
 Chilliwack, BC  
 CA V2R 3W8  
 Contact: Derek Jessop  
 djessop@gflenv.com  
 T: (604)798-5301  
 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.