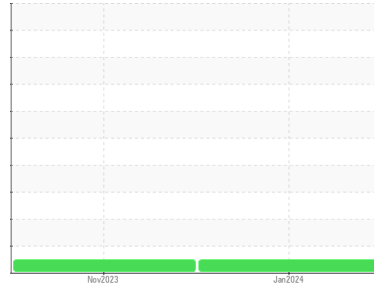




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**834007**

Component  
**Natural Gas Engine**

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0092117</b>	GFL0084656	---
Sample Date	Client Info	<b>10 Jan 2024</b>	02 Nov 2023	---
Machine Age	hrs	Client Info	<b>1795</b>	0
Oil Age	hrs	Client Info	<b>600</b>	0
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 D5185m	>50	<b>14</b>	17
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0
Aluminum	ppm	ASTM D5185m	>9	<b>6</b>	9
Lead	ppm	ASTM D5185m	>30	<b>1</b>	<1
Copper	ppm	ASTM D5185m	>35	<b>2</b>	3
Tin	ppm	ASTM D5185m	>4	<b>1</b>	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	50	<b>9</b>	8
Barium	ppm	ASTM D5185m	5	<b>0</b>	0
Molybdenum	ppm	ASTM D5185m	50	<b>52</b>	55
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	2
Magnesium	ppm	ASTM D5185m	560	<b>526</b>	682
Calcium	ppm	ASTM D5185m	1510	<b>1525</b>	1562
Phosphorus	ppm	ASTM D5185m	780	<b>743</b>	724
Zinc	ppm	ASTM D5185m	870	<b>942</b>	1080
Sulfur	ppm	ASTM D5185m	2040	<b>2336</b>	2629

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>+100	<b>5</b>	8
Sodium	ppm	ASTM D5185m		<b>8</b>	6
Potassium	ppm	ASTM D5185m	>20	<b>22</b>	37

## INFRA-RED

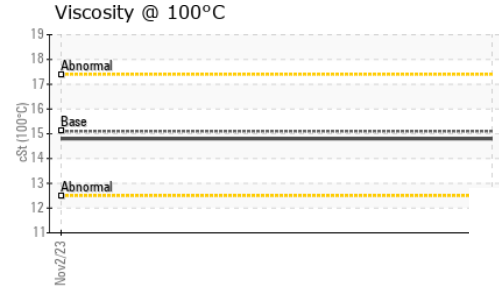
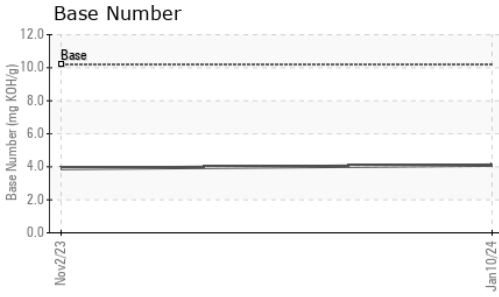
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		<b>0</b>	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.9</b>	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.7</b>	22.9

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.2</b>	19.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>4.1</b>	3.9



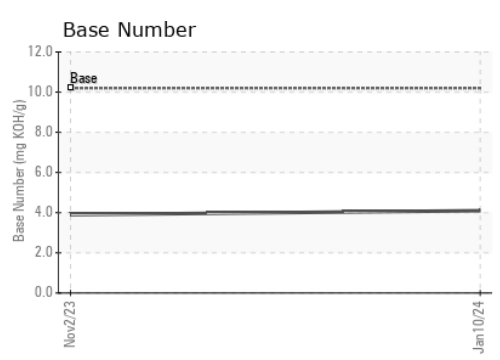
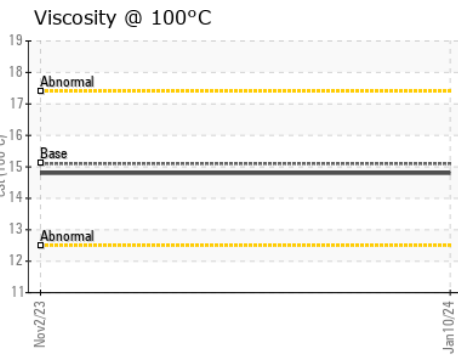
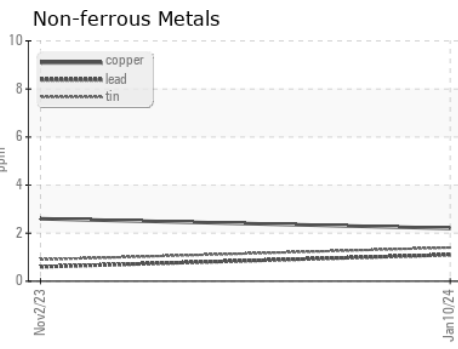
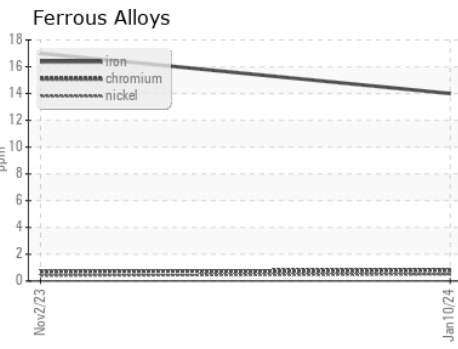
# OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	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 D445	15.1	14.8	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0092117 **Recieved** : 16 Jan 2024  
**Lab Number** : 06060576 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 10831958 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 856 - Houston South**  
 8515 Highway 6 South  
 Houston, TX  
 US 77083  
 Contact: Apolinar Zacarias  
 pzacariascano@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)