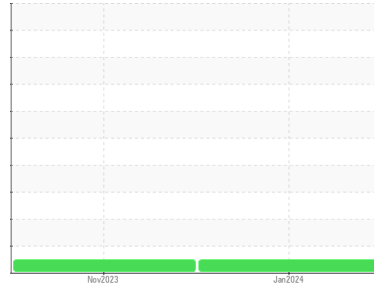




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(TJY0185)**

Machine Id  
**934067**

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

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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>GFL0103930</b>	GFL0100526	---
Sample Date	Client Info		<b>11 Jan 2024</b>	04 Nov 2023	---
Machine Age	hrs	Client Info	<b>1184</b>	605	---
Oil Age	hrs	Client Info	<b>579</b>	605	---
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>20</b>	41	---
Chromium	ppm	ASTM D5185m >4	<b>1</b>	<1	---
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>0</b>	0	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >9	<b>39</b>	31	---
Lead	ppm	ASTM D5185m >30	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m >35	<b>3</b>	13	---
Tin	ppm	ASTM D5185m >4	<b>&lt;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>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m 50	<b>55</b>	50	---
Manganese	ppm	ASTM D5185m 0	<b>2</b>	7	---
Magnesium	ppm	ASTM D5185m 560	<b>618</b>	786	---
Calcium	ppm	ASTM D5185m 1510	<b>1557</b>	1267	---
Phosphorus	ppm	ASTM D5185m 780	<b>791</b>	657	---
Zinc	ppm	ASTM D5185m 870	<b>1018</b>	932	---
Sulfur	ppm	ASTM D5185m 2040	<b>2518</b>	2247	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>9</b>	34	---
Sodium	ppm	ASTM D5185m	<b>7</b>	4	---
Potassium	ppm	ASTM D5185m >20	<b>130</b>	120	---

## INFRA-RED

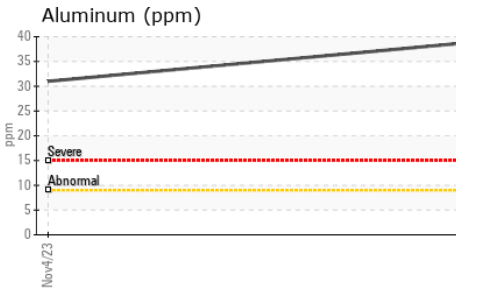
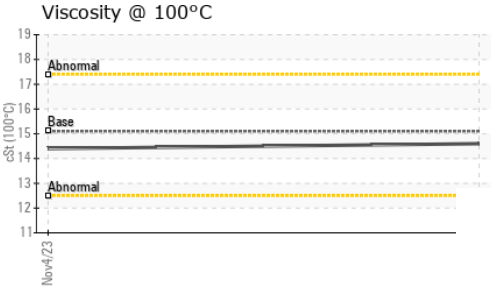
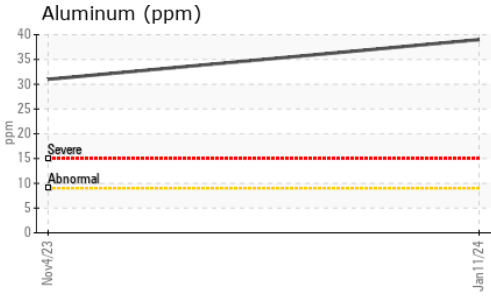
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.7</b>	11.4	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.0</b>	22.6	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>18.1</b>	20.8	---
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>4.7</b>	4.7	---



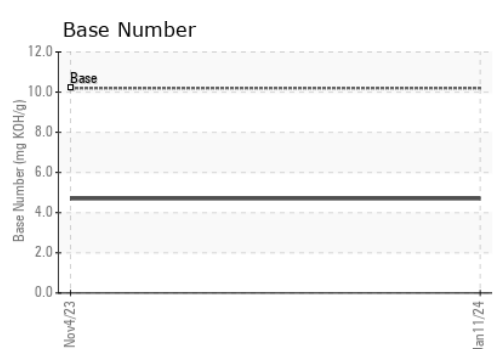
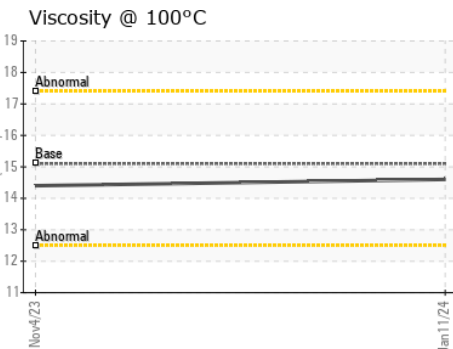
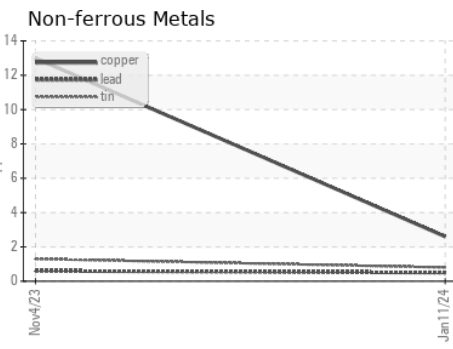
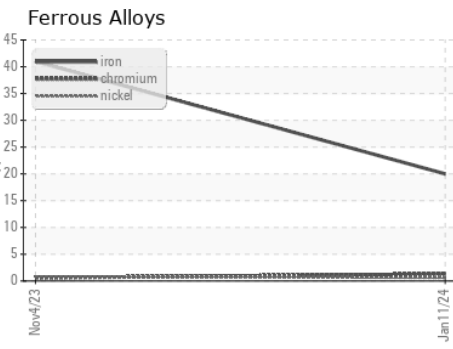
# OIL ANALYSIS REPORT



VISUAL	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	14.4	---

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : GFL0103930      Recieved : 19 Jan 2024  
 Lab Number : 06065292      Diagnosed : 20 Jan 2024  
 Unique Number : 10836674      Diagnostician : Wes Davis  
 Test Package : FLEET

GFL Environmental - 865 - East Mount Hauling  
 7213 East Mount Houston Road  
 Houston, TX  
 US 77050  
 Contact: TECHNICIAN ACCOUNT  
 wcgfldemo@gmail.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)

T:  
F: