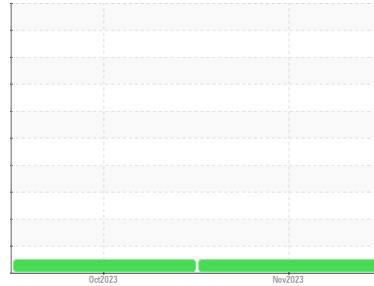




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**933000**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (5 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 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>GFL0098107</b>	GFL0088521	---
Sample Date	Client Info		<b>01 Nov 2023</b>	03 Oct 2023	---
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>292</b>	376	---
Oil Changed		Client Info	<b>N/A</b>	N/A	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>9</b>	28	---
Chromium	ppm	ASTM D5185m >4	<b>&lt;1</b>	2	---
Nickel	ppm	ASTM D5185m >2	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >9	<b>&lt;1</b>	2	---
Lead	ppm	ASTM D5185m >30	<b>&lt;1</b>	2	---
Copper	ppm	ASTM D5185m >35	<b>2</b>	8	---
Tin	ppm	ASTM D5185m >4	<b>0</b>	1	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<b>26</b>	29	---
Barium	ppm	ASTM D5185m 5	<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m 50	<b>52</b>	52	---
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	3	---
Magnesium	ppm	ASTM D5185m 560	<b>597</b>	878	---
Calcium	ppm	ASTM D5185m 1510	<b>1455</b>	1353	---
Phosphorus	ppm	ASTM D5185m 780	<b>717</b>	750	---
Zinc	ppm	ASTM D5185m 870	<b>940</b>	966	---
Sulfur	ppm	ASTM D5185m 2040	<b>2860</b>	2729	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>21</b>	78	---
Sodium	ppm	ASTM D5185m	<b>0</b>	5	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	5	---

## INFRA-RED

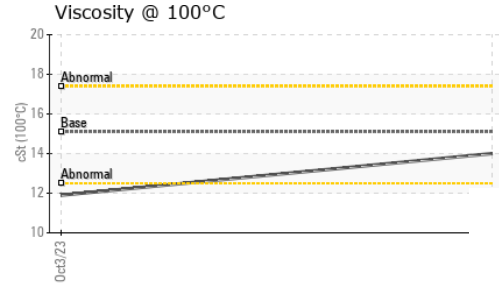
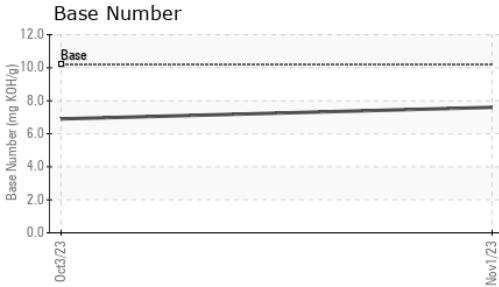
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.4</b>	9.6	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.3</b>	19.3	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>16.7</b>	17.3	---
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>7.6</b>	6.9	---



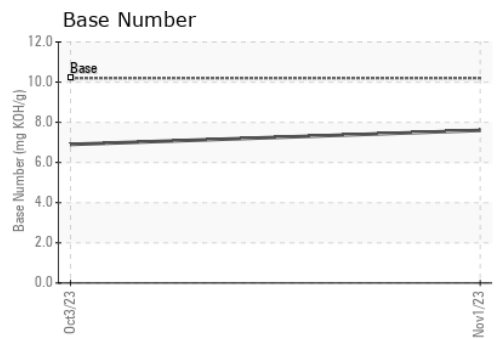
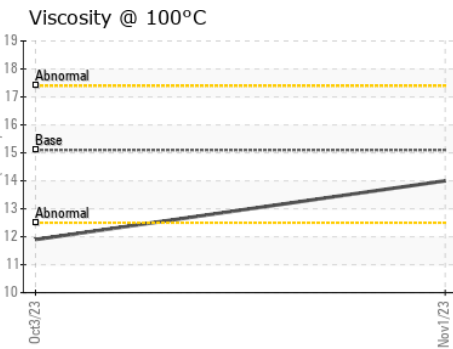
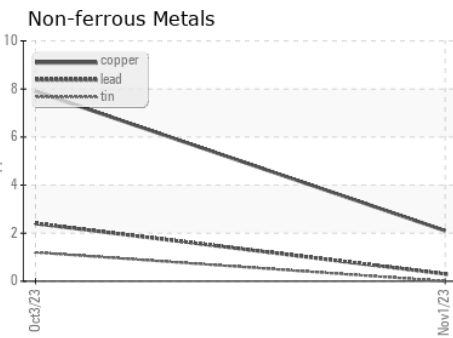
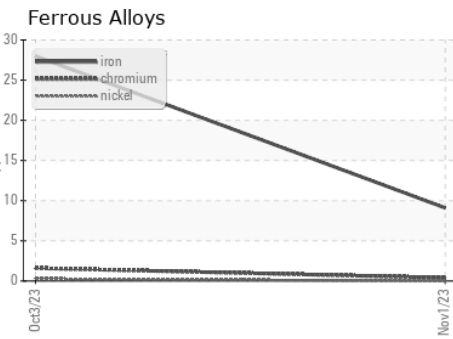
# OIL ANALYSIS REPORT



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	<b>14.0</b>	11.9	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0098107 **Received** : 02 Nov 2023  
**Lab Number** : **05997283** **Diagnosed** : 03 Nov 2023  
**Unique Number** : 10725643 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 017 - Durham**  
 148 Stone Park Court  
 Durham, NC  
 US 27703  
 Contact: Shane Parks  
 shane.parks@gflenv.com  
 T: (919)596-1363  
 F: (919)598-1852

Certificate L2367  
 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)