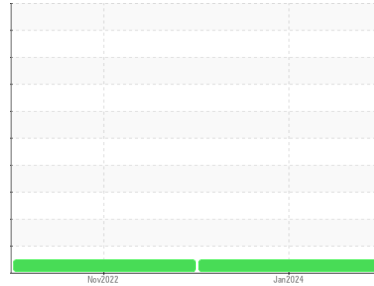




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**846000**

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 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>GFL0086744</b>	GFL0060630	---
Sample Date	Client Info		<b>25 Jan 2024</b>	05 Nov 2022	---
Machine Age	hrs	Client Info	<b>3545</b>	1012	---
Oil Age	hrs	Client Info	<b>3545</b>	1012	---
Oil Changed	Client Info		<b>Changed</b>	Not Changd	---
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>19</b>	29	---
Chromium	ppm	ASTM D5185m >4	<b>2</b>	7	---
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	2	---
Aluminum	ppm	ASTM D5185m >9	<b>2</b>	3	---
Lead	ppm	ASTM D5185m >30	<b>7</b>	1	---
Copper	ppm	ASTM D5185m >35	<b>1</b>	<1	---
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<b>10</b>	14	---
Barium	ppm	ASTM D5185m 5	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 50	<b>65</b>	60	---
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m 560	<b>688</b>	631	---
Calcium	ppm	ASTM D5185m 1510	<b>1984</b>	1651	---
Phosphorus	ppm	ASTM D5185m 780	<b>918</b>	788	---
Zinc	ppm	ASTM D5185m 870	<b>1137</b>	1041	---
Sulfur	ppm	ASTM D5185m 2040	<b>2735</b>	3044	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>6</b>	7	---
Sodium	ppm	ASTM D5185m	<b>17</b>	2	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	2	---

## INFRA-RED

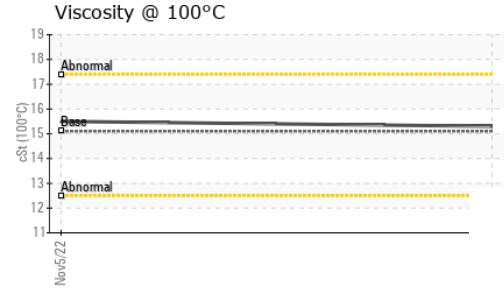
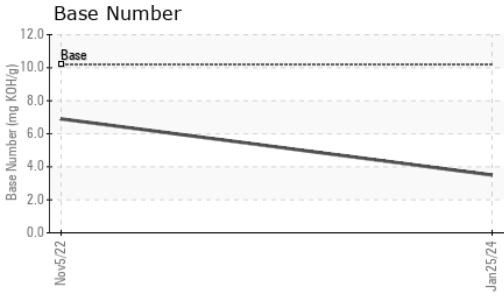
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0.1	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>13.9</b>	13.4	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>27.9</b>	24.8	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>25.1</b>	21.8	---
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>3.5</b>	6.9	---



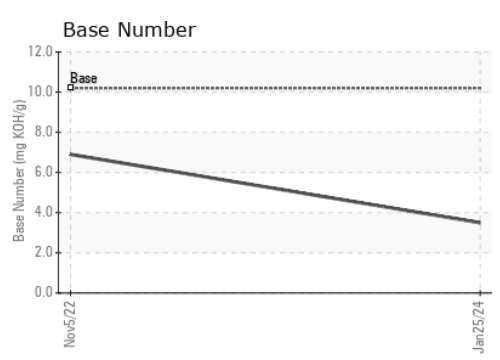
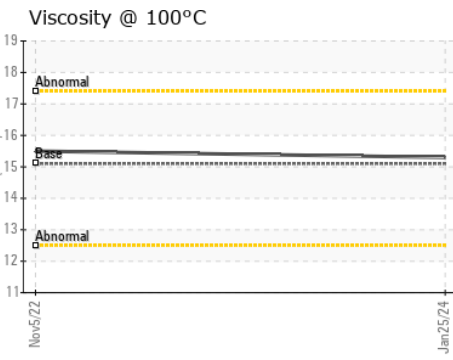
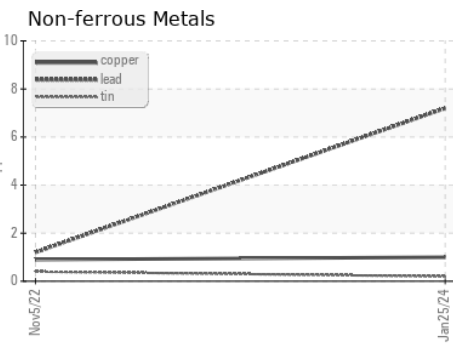
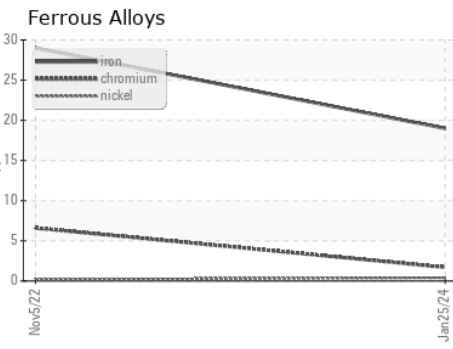
# OIL ANALYSIS REPORT



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	15.3	15.5

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0086744 **Recieved** : 29 Jan 2024  
**Lab Number** : 06072488 **Diagnosed** : 30 Jan 2024  
**Unique Number** : 10849165 **Diagnostician** : Sean Felton  
**Test Package** : FLEET

**GFL Environmental - 932 - Muskego HC**  
 W144 S6400 College Ct.  
 Muskego, WI  
 US 53150  
 Contact: Brian Schlomann  
 brian.schlomann@gflenv.com  
 T: (262)510-4586  
 F:

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)