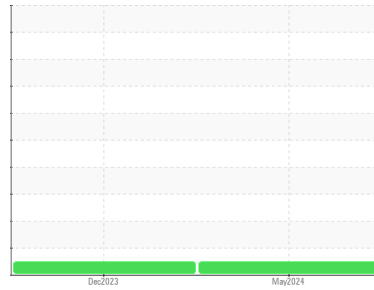




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

**849009**

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>GFL0114764</b>	GFL0090381	---
Sample Date	Client Info		<b>31 May 2024</b>	05 Dec 2023	---
Machine Age	hrs	Client Info	<b>12517</b>	11448	---
Oil Age	hrs	Client Info	<b>1069</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>9</b>	16	---
Chromium	ppm	ASTM D5185m >4	<b>&lt;1</b>	2	---
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</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>3</b>	4	---
Lead	ppm	ASTM D5185m >30	<b>1</b>	6	---
Copper	ppm	ASTM D5185m >35	<b>0</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>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<b>10</b>	7	---
Barium	ppm	ASTM D5185m 5	<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m 50	<b>48</b>	61	---
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185m 560	<b>524</b>	600	---
Calcium	ppm	ASTM D5185m 1510	<b>1438</b>	1625	---
Phosphorus	ppm	ASTM D5185m 780	<b>707</b>	775	---
Zinc	ppm	ASTM D5185m 870	<b>884</b>	982	---
Sulfur	ppm	ASTM D5185m 2040	<b>2533</b>	2169	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>4</b>	6	---
Sodium	ppm	ASTM D5185m	<b>5</b>	8	---
Potassium	ppm	ASTM D5185m >20	<b>3</b>	1	---

## INFRA-RED

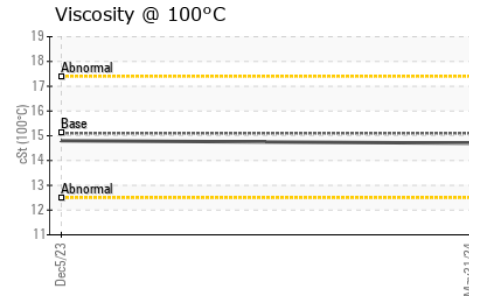
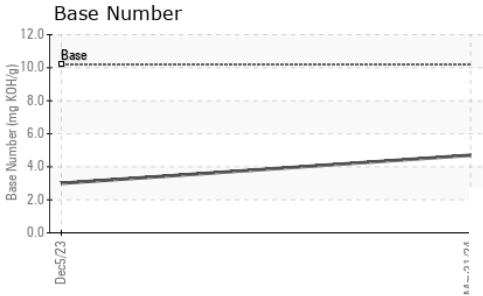
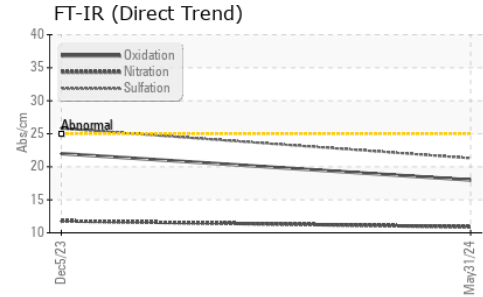
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.1</b>	0	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.9</b>	11.8	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.3</b>	25.8	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>18.0</b>	22.0	---
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>4.7</b>	3.0	---



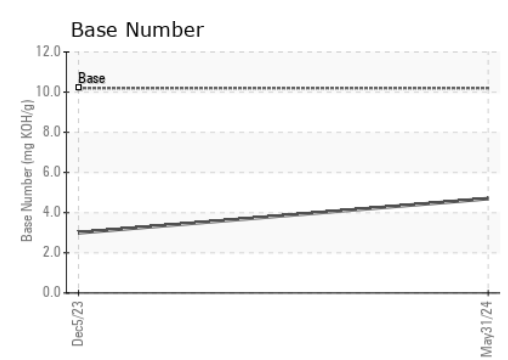
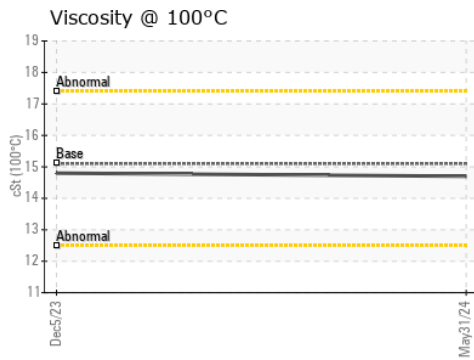
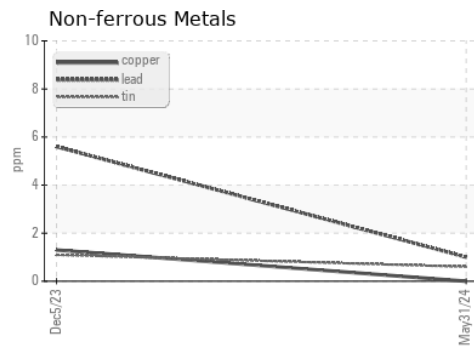
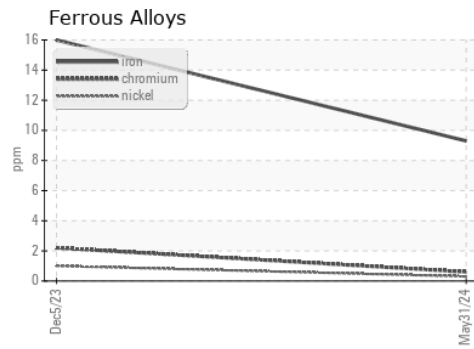
# OIL ANALYSIS REPORT



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	14.7	14.8

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0114764      **Received** : 06 Jun 2024  
**Lab Number** : **06201195**      **Tested** : 07 Jun 2024  
**Unique Number** : 11063318      **Diagnosed** : 07 Jun 2024 - Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 963 - Peoria HC Disposal**  
 1113 N. Swords Ave.  
 West Peoria, IL  
 US 61604  
 Contact: Corey Dozard  
 cdozard@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)