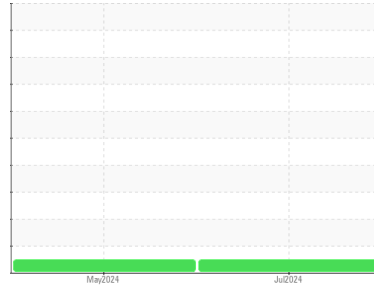




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**AUTOCAR 933046**

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>GFL0109612</b>	GFL0109649	---
Sample Date	Client Info			<b>12 Jul 2024</b>	17 May 2024	---
Machine Age	hrs	Client Info		<b>1154</b>	776	---
Oil Age	hrs	Client Info		<b>1154</b>	776	---
Oil Changed	Client Info			<b>Not Chngd</b>	Not Chngd	---
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>33</b>	32	---
Chromium	ppm	ASTM D5185m	>4	<b>2</b>	1	---
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>9	<b>4</b>	3	---
Lead	ppm	ASTM D5185m	>30	<b>9</b>	3	---
Copper	ppm	ASTM D5185m	>35	<b>14</b>	11	---
Tin	ppm	ASTM D5185m	>4	<b>2</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	<b>8</b>	10	---
Barium	ppm	ASTM D5185m	5	<b>5</b>	6	---
Molybdenum	ppm	ASTM D5185m	50	<b>57</b>	54	---
Manganese	ppm	ASTM D5185m	0	<b>4</b>	4	---
Magnesium	ppm	ASTM D5185m	560	<b>742</b>	780	---
Calcium	ppm	ASTM D5185m	1510	<b>1381</b>	1351	---
Phosphorus	ppm	ASTM D5185m	780	<b>748</b>	700	---
Zinc	ppm	ASTM D5185m	870	<b>950</b>	941	---
Sulfur	ppm	ASTM D5185m	2040	<b>2318</b>	2773	---

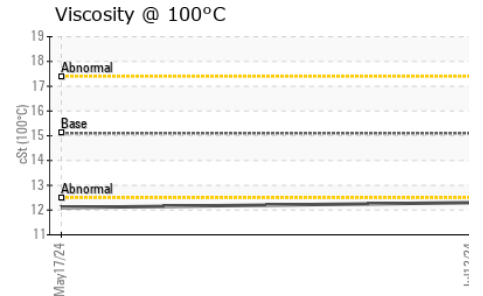
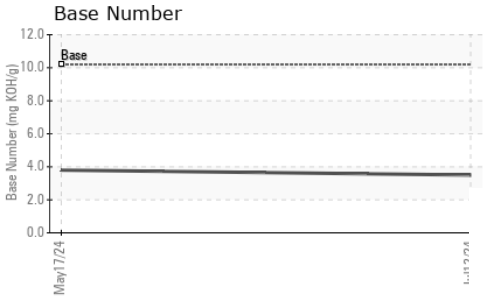
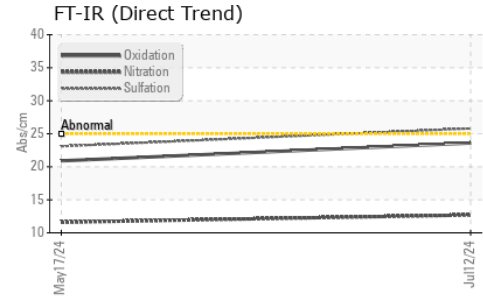
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	<b>66</b>	78	---
Sodium	ppm	ASTM D5185m		<b>2</b>	5	---
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	4	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		<b>0</b>	0	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.7</b>	11.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.8</b>	23.1	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.6</b>	20.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>3.5</b>	3.8	---



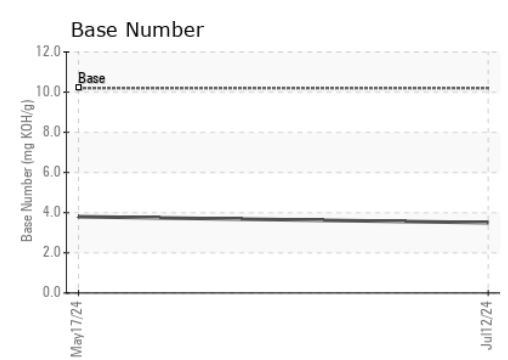
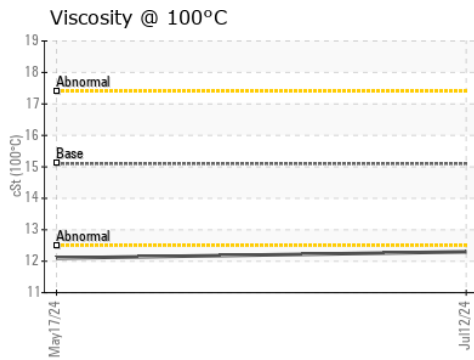
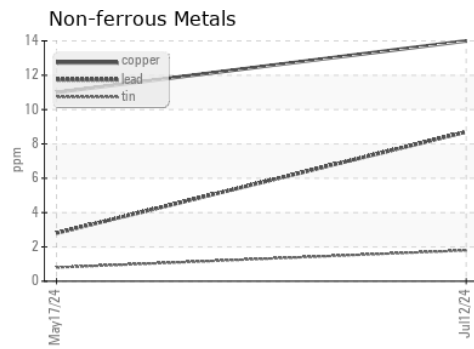
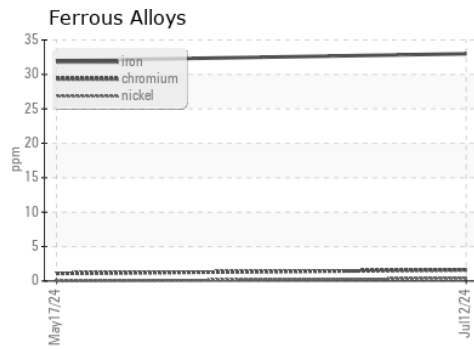
# OIL ANALYSIS REPORT



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	12.3	12.1

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0109612      **Received** : 18 Jul 2024  
**Lab Number** : 06239859      **Tested** : 18 Jul 2024  
**Unique Number** : 11128693      **Diagnosed** : 19 Jul 2024 - Don Baldrige  
**Test Package** : FLEET

**GFL Environmental - 331 - Columbus**  
 180 Ada Moore Rd  
 Columbus, NC  
 US 28722  
 Contact: Matt Segars  
 matt.segars@gflenv.com  
 T: (800)207-6618  
 F: (252)617-2494

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)