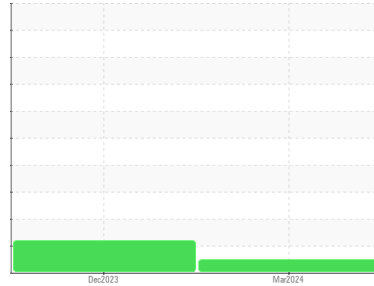




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**940005**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON SHP 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>GFL0113037</b>	GFL0059656	---
Sample Date	Client Info		<b>06 Mar 2024</b>	01 Dec 2023	---
Machine Age	mls	Client Info	<b>0</b>	0	---
Oil Age	mls	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>NORMAL</b>	ABNORMAL	---

## 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>8</b>	16	---
Chromium	ppm	ASTM D5185m >4	<b>&lt;1</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>2</b>	3	---
Lead	ppm	ASTM D5185m >30	<b>4</b>	14	---
Copper	ppm	ASTM D5185m >35	<b>5</b>	4	---
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>11</b>	3	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 60	<b>61</b>	82	---
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m 1010	<b>548</b>	585	---
Calcium	ppm	ASTM D5185m 1070	<b>1638</b>	1627	---
Phosphorus	ppm	ASTM D5185m 1150	<b>725</b>	751	---
Zinc	ppm	ASTM D5185m 1270	<b>960</b>	956	---
Sulfur	ppm	ASTM D5185m 2060	<b>2555</b>	2357	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>8</b>	15	---
Sodium	ppm	ASTM D5185m	<b>6</b>	11	---
Potassium	ppm	ASTM D5185m >20	<b>5</b>	14	---

## INFRA-RED

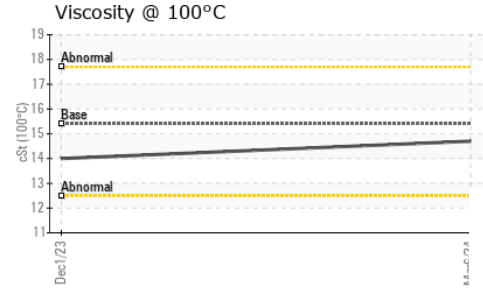
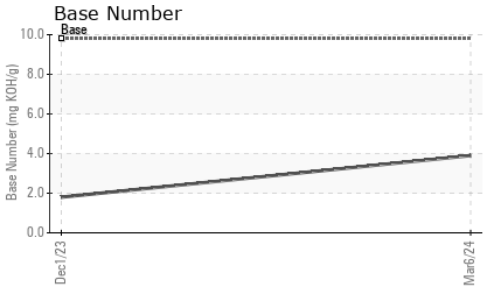
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.0</b>	13.6	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>22.2</b>	27.4	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>20.0</b>	25.5	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>3.9</b>	▲ 1.8	---



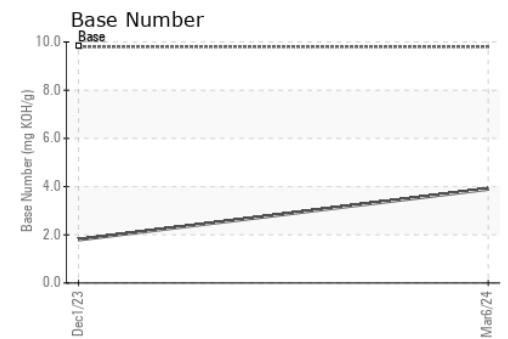
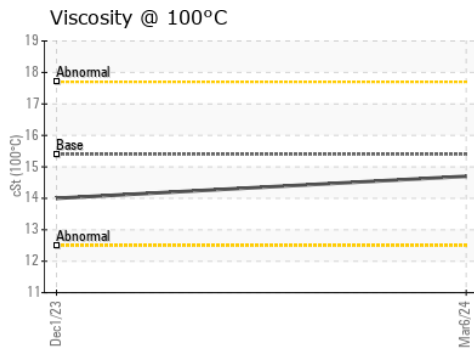
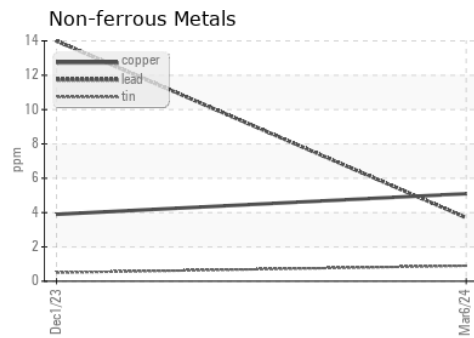
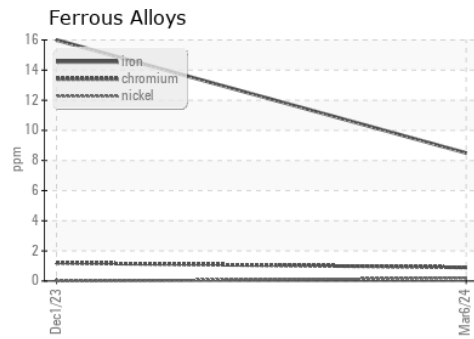
# OIL ANALYSIS REPORT



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	15.4	<b>14.7</b>	14.0	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0113037 **Received** : 11 Mar 2024  
**Lab Number** : **06114117** **Tested** : 12 Mar 2024  
**Unique Number** : 10922950 **Diagnosed** : 13 Mar 2024 - Jonathan Hester  
**Test Package** : FLEET

**GFL Environmental - 924 - Madison HC**  
 300 Raemisch Road  
 Waunakee, WI  
 US 53597  
 Contact: Ben Briggs  
 ben.briggs@gflenv.com  
 T: (608)770-9196  
 F:

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)