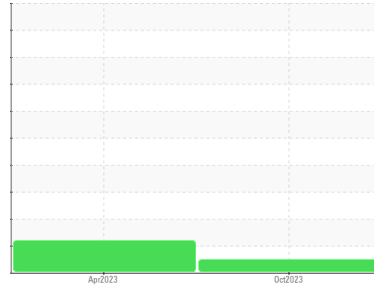




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**732012**

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>GFL0084653</b>	GFL0078008	---
Sample Date	Client Info		<b>16 Oct 2023</b>	18 Apr 2023	---
Machine Age	mls	Client Info	<b>0</b>	35867	---
Oil Age	mls	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	Not Changd	---
Sample Status			<b>NORMAL</b>	ABNORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>8</b>	29	---
Chromium	ppm	ASTM D5185m >4	<b>&lt;1</b>	2	---
Nickel	ppm	ASTM D5185m >2	<b>0</b>	1	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >9	<b>2</b>	3	---
Lead	ppm	ASTM D5185m >30	<b>4</b>	11	---
Copper	ppm	ASTM D5185m >35	<b>1</b>	4	---
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	2	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>33</b>	6	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 60	<b>52</b>	65	---
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	2	---
Magnesium	ppm	ASTM D5185m 1010	<b>592</b>	666	---
Calcium	ppm	ASTM D5185m 1070	<b>1736</b>	1881	---
Phosphorus	ppm	ASTM D5185m 1150	<b>816</b>	839	---
Zinc	ppm	ASTM D5185m 1270	<b>1006</b>	1133	---
Sulfur	ppm	ASTM D5185m 2060	<b>2492</b>	2794	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>4</b>	8	---
Sodium	ppm	ASTM D5185m	<b>5</b>	12	---
Potassium	ppm	ASTM D5185m >20	<b>3</b>	2	---

## INFRA-RED

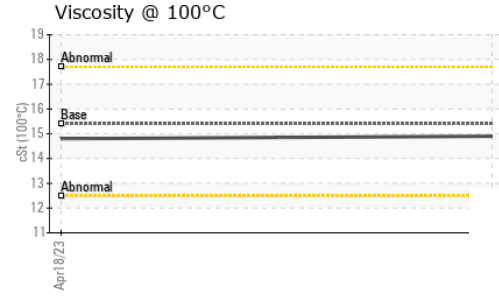
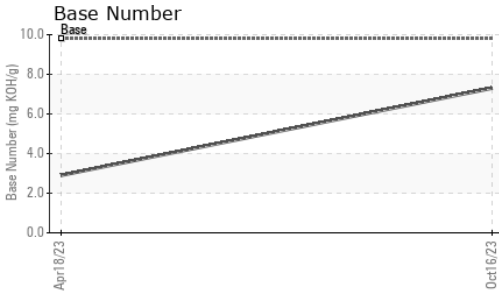
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.1</b>	13.1	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>20.3</b>	28.0	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>17.2</b>	23.7	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>7.3</b>	▲ 2.9	---



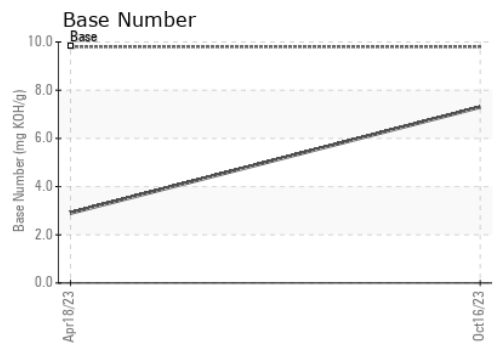
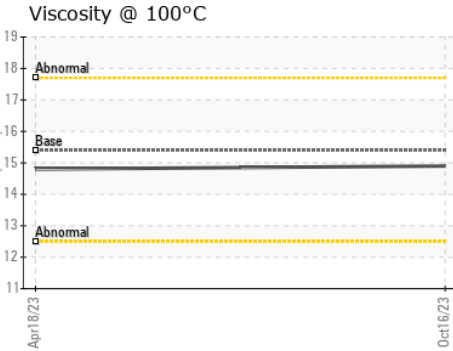
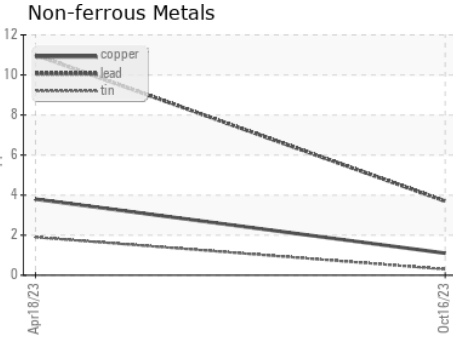
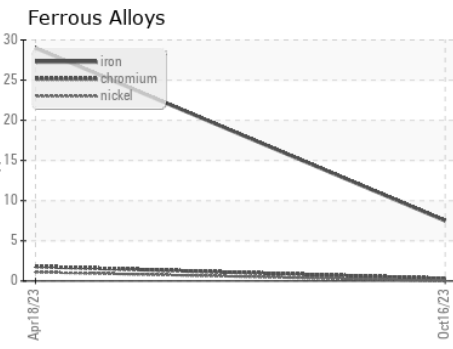
# OIL ANALYSIS REPORT



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	15.4	<b>14.9</b>	14.8

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0084653  
**Lab Number** : **05985328**  
**Unique Number** : 10702623  
**Test Package** : FLEET

**GFL Environmental - 856 - Houston South**  
 8515 Highway 6 South  
 Houston, TX  
 US 77083  
 Contact: Gino Griego

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)

T:  
F: