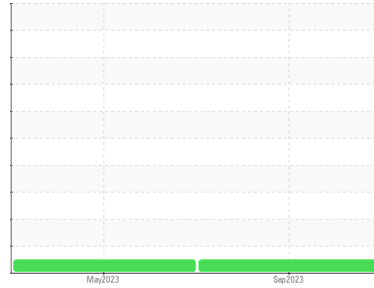




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**833109**

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 condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0090593</b>	GFL0077994	---
Sample Date	Client Info		<b>12 Sep 2023</b>	16 May 2023	---
Machine Age	hrs	Client Info	<b>1091</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>50	<b>20</b>	46	---
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>9	<b>3</b>	3	---
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	1	---
Copper	ppm	ASTM D5185(m)	>35	<b>4</b>	19	---
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	50	<b>4</b>	17	---
Barium	ppm	ASTM D5185(m)	5	<b>&lt;1</b>	3	---
Molybdenum	ppm	ASTM D5185(m)	50	<b>53</b>	50	---
Manganese	ppm	ASTM D5185(m)	0	<b>2</b>	9	---
Magnesium	ppm	ASTM D5185(m)	560	<b>585</b>	768	---
Calcium	ppm	ASTM D5185(m)	1510	<b>1589</b>	1218	---
Phosphorus	ppm	ASTM D5185(m)	780	<b>716</b>	746	---
Zinc	ppm	ASTM D5185(m)	870	<b>896</b>	821	---
Sulfur	ppm	ASTM D5185(m)	2040	<b>1914</b>	1964	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>+100	<b>10</b>	34	---
Sodium	ppm	ASTM D5185(m)		<b>10</b>	5	---
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	4	---

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.5</b>	11.5	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.8</b>	22.0	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>21.5</b>	19.3	---

