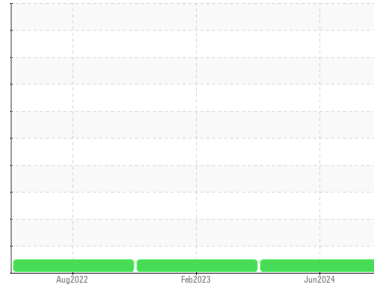




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

**930023**

Component

**Diesel 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>GFL0117288</b>	GFL0070715	GFL0057838
Sample Date	Client Info		<b>05 Jun 2024</b>	20 Feb 2023	24 Aug 2022
Machine Age	hrs	Client Info	<b>7190</b>	3551	2328
Oil Age	hrs	Client Info	<b>1345</b>	1223	1173
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	<b>23</b>	17	14
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	3	3
Lead	ppm	ASTM D5185(m)	>40	<b>6</b>	2	1
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	2	3
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	1	1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	50	<b>7</b>	7	7
Barium	ppm	ASTM D5185(m)	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>61</b>	57	52
Manganese	ppm	ASTM D5185(m)	0	<b>1</b>	1	1
Magnesium	ppm	ASTM D5185(m)	560	<b>621</b>	597	545
Calcium	ppm	ASTM D5185(m)	1510	<b>1801</b>	1782	1613
Phosphorus	ppm	ASTM D5185(m)	780	<b>759</b>	770	660
Zinc	ppm	ASTM D5185(m)	870	<b>989</b>	964	888
Sulfur	ppm	ASTM D5185(m)	2040	<b>2081</b>	2112	1993
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	4	6
Sodium	ppm	ASTM D5185(m)		<b>11</b>	9	8
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	4

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>13.1</b>	10.4	11.9
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>28.2</b>	24.5	25.6

