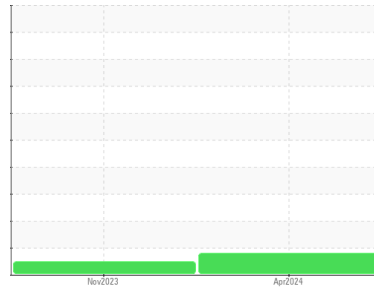




# OIL ANALYSIS REPORT

## Sample Rating Trend



FUEL



Machine Id

**401108**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON SHP 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### Wear

All component wear rates are normal.

### Contamination

Light fuel dilution occurring. No other contaminants were detected 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>GFL0096816</b>	GFL0096751	---
Sample Date	Client Info		<b>30 Apr 2024</b>	16 Nov 2023	---
Machine Age	kms	Client Info	<b>872874</b>	846093	---
Oil Age	kms	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>MARGINAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	<b>37</b>	19	---
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	1	---
Lead	ppm	ASTM D5185(m)	>40	<b>5</b>	1	---
Copper	ppm	ASTM D5185(m)	>330	<b>4</b>	1	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	---
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)	0	<b>3</b>	3	---
Barium	ppm	ASTM D5185(m)	0	<b>1</b>	<1	---
Molybdenum	ppm	ASTM D5185(m)	60	<b>62</b>	57	---
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185(m)	1010	<b>975</b>	927	---
Calcium	ppm	ASTM D5185(m)	1070	<b>1074</b>	1023	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>958</b>	947	---
Zinc	ppm	ASTM D5185(m)	1270	<b>1180</b>	1148	---
Sulfur	ppm	ASTM D5185(m)	2060	<b>2412</b>	2390	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>7</b>	4	---
Sodium	ppm	ASTM D5185(m)		<b>17</b>	4	---
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	<1	---
Fuel	%	ASTM D7593*	>5	<b>▲ 2.6</b>	<1.0	---

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0.8</b>	0.3	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.3</b>	7.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.3</b>	20.3	---

