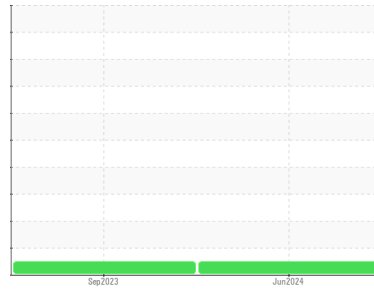




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**819011**  
 Component  
**Diesel 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>GFL0112444</b>	GFL0084343	---
Sample Date	Client Info		<b>15 Jun 2024</b>	02 Sep 2023	---
Machine Age	hrs	Client Info	<b>145446</b>	122385	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	N/A	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	---
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)	>80	<b>46</b>	13	---
Chromium	ppm	ASTM D5185(m)	>5	<b>1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>30	<b>4</b>	2	---
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	---
Copper	ppm	ASTM D5185(m)	>150	<b>5</b>	1	---
Tin	ppm	ASTM D5185(m)	>5	<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>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	60	<b>61</b>	58	---
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	1010	<b>954</b>	960	---
Calcium	ppm	ASTM D5185(m)	1070	<b>1064</b>	1056	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>935</b>	1055	---
Zinc	ppm	ASTM D5185(m)	1270	<b>1173</b>	1180	---
Sulfur	ppm	ASTM D5185(m)	2060	<b>2317</b>	2570	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>20	<b>8</b>	4	---
Sodium	ppm	ASTM D5185(m)		<b>3</b>	4	---
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	1	---

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0.8</b>	0.4	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.5</b>	6.8	---
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>23.2</b>	19.6	---

