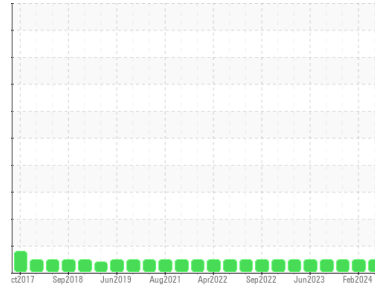




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

**201039**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON XL SYN BLEND 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>GFL0112445</b>	GFL0112390	GFL0099588
Sample Date	Client Info		<b>19 Jun 2024</b>	27 Feb 2024	06 Dec 2023
Machine Age	hrs	Client Info	<b>12840</b>	12179	431911
Oil Age	hrs	Client Info	<b>661</b>	206	0
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>12</b>	10	8
Chromium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185(m) >4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >20	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m) >40	<b>3</b>	3	5
Copper	ppm	ASTM D5185(m) >330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m) >15	<b>0</b>	<1	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
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) 1	<b>4</b>	2	2
Barium	ppm	ASTM D5185(m) 1	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m) 60	<b>57</b>	57	59
Manganese	ppm	ASTM D5185(m) 1	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m) 1010	<b>914</b>	922	954
Calcium	ppm	ASTM D5185(m) 1070	<b>1024</b>	1051	1050
Phosphorus	ppm	ASTM D5185(m) 1150	<b>965</b>	999	1002
Zinc	ppm	ASTM D5185(m) 1270	<b>1157</b>	1163	1204
Sulfur	ppm	ASTM D5185(m) 2060	<b>2392</b>	2607	2513
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>	3	3
Sodium	ppm	ASTM D5185(m)	<b>2</b>	2	2
Potassium	ppm	ASTM D5185(m) >20	<b>1</b>	2	<1

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>1.4</b>	1.2	1.1
Nitration	Abs/cm	ASTM D7624* >20	<b>14.7</b>	12.7	12.3
Sulfation	Abs./1mm	ASTM D7415* >30	<b>25.9</b>	21.4	22.0

