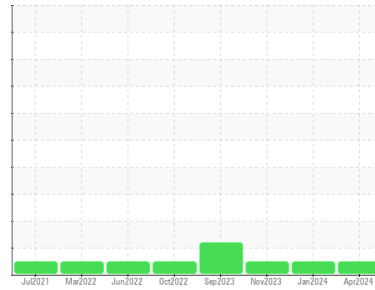




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id

**0556**

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>GFL0117276</b>	GFL0099608	GFL0091582
Sample Date	Client Info		<b>25 Apr 2024</b>	24 Jan 2024	06 Nov 2023
Machine Age	kms	Client Info	<b>217886</b>	209463	204407
Oil Age	kms	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	N/A	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

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	<b>18</b>	19	18
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>4</b>	4	2
Lead	ppm	ASTM D5185(m)	>40	<b>1</b>	2	4
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	1	3
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	1
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>3</b>	2	3
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>56</b>	56	57
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>911</b>	891	909
Calcium	ppm	ASTM D5185(m)	1070	<b>993</b>	1025	1007
Phosphorus	ppm	ASTM D5185(m)	1150	<b>971</b>	980	976
Zinc	ppm	ASTM D5185(m)	1270	<b>1126</b>	1157	1137
Sulfur	ppm	ASTM D5185(m)	2060	<b>2463</b>	2709	2497
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>5</b>	9	8
Sodium	ppm	ASTM D5185(m)		<b>12</b>	16	48
Potassium	ppm	ASTM D5185(m)	>20	<b>9</b>	8	4
Glycol	%	ASTM D7922*		<b>0.0</b>	0.0	NEG

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0.2</b>	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.6</b>	7.3	6.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.9</b>	18.8	18.7

