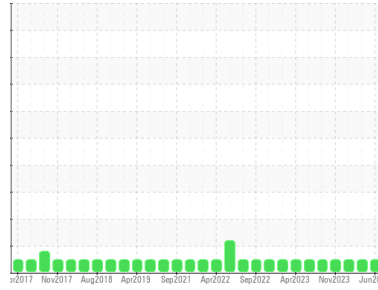




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**(MRU613)**  
Machine Id  
**9136**  
Component  
**Front Diesel Engine**  
Fluid  
**PETRO CANADA DURON XL SYN BLEND 15W40 (27 LTR)**

## 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 condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL</b>	GFL0117278	GFL0099622
Sample Date	Client Info		<b>30 Jun 2024</b>	18 Apr 2024	25 Jan 2024
Machine Age	hrs	Client Info	<b>0</b>	21477	20798
Oil Age	hrs	Client Info	<b>654</b>	690	563
Oil Changed	Client Info		<b>N/A</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	2.8
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)	>120	<b>10</b>	10	10
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>2</b>	0	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	1	2
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<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>4</b>	3	2
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>55</b>	55	57
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>890</b>	906	903
Calcium	ppm	ASTM D5185(m)	1070	<b>1011</b>	991	1044
Phosphorus	ppm	ASTM D5185(m)	1150	<b>894</b>	904	950
Zinc	ppm	ASTM D5185(m)	1270	<b>1129</b>	1108	1164
Sulfur	ppm	ASTM D5185(m)	2060	<b>2222</b>	2125	2501
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>	4	4
Sodium	ppm	ASTM D5185(m)		<b>4</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>4	<b>0.6</b>	0.4	0.5
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.2</b>	8.3	8.1
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>21.5</b>	20.4	20.5

