

# **OIL ANALYSIS REPORT**

Sample Rating Trend

## NORMAL

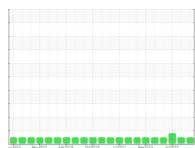


#### Machine Id **4493** Component

**Right Diesel Engine** 

PETRO CANADA DURON XL SYN BLEND 15W40 (36 LTR)

SAMPLE INFORMATION method





# 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 Number		Client Info		GFL0091654	GFL0084295	GFL0084297
Sample Date		Client Info		28 Sep 2023	25 Jul 2023	24 Jul 2023
Machine Age	hrs	Client Info		36942	676520	990083
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1110	Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
				-	-	
CONTAMINATI	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	1.2	0.9
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	32	6	47
Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>25	1	2	2
Lead	ppm	ASTM D5185(m)	>40	<1	1	<1
Copper	ppm	ASTM D5185(m)	>330	1	<1	2
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	3	2	2
Barium	ppm	ASTM D5185(m)	1	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	60	58	56	56
Manganese	ppm	ASTM D5185(m)	1	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	929	945	910
Calcium	ppm	ASTM D5185(m)	1070	1049	1016	1019
Phosphorus	ppm	ASTM D5185(m)	1150	982	1006	1020
Zinc	ppm	ASTM D5185(m)	1270	1172	1147	1132
Sulfur	ppm	ASTM D5185(m)	2060	2508	2372	2468
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	5	6
Sodium	ppm	ASTM D5185(m)		4	4	3
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	2.4	0	<b>3</b> .3
Nitration	Abs/cm	ASTM D7624*	>20	9.9	7.2	11.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.8	20.5	26.0

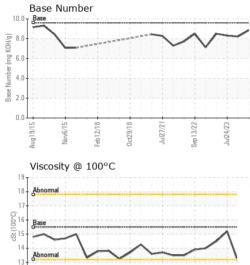


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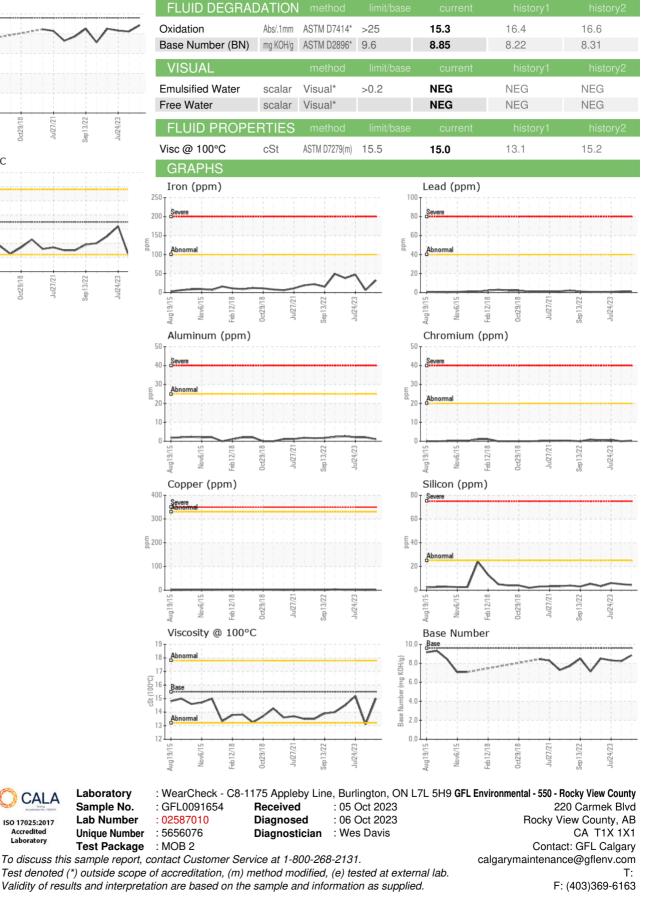
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# **OIL ANALYSIS REPORT**



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Sep 13/22



CALA

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Laboratory