

OIL ANALYSIS REPORT

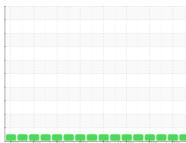
Sample Rating Trend





Component **Diesel Engine** Fluid

PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)





	. ,	Nov2017 Jani	2018 Aug2018 Apr2019	Jun2021 May2022 Nov2022	Apr2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history
Sample Number		Client Info		GFL0091632	GFL0077546	GFL00707
Sample Date		Client Info		25 Sep 2023	11 Apr 2023	14 Feb 202
Machine Age	hrs	Client Info		15176	14611	14359
Oil Age	hrs	Client Info		0	14611	474
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history
Iron	ppm	ASTM D5185(m)	>130	97	33	57
Chromium	ppm	ASTM D5185(m)	>10	2	<1	2
Nickel	ppm	ASTM D5185(m)	>4	1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	3	3
Lead	ppm	ASTM D5185(m)	>20	0	0	0
Copper	ppm	ASTM D5185(m)	>125	2	<1	1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
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	history
Boron	ppm	ASTM D5185(m)	1	3	2	3
Barium	ppm	ASTM D5185(m)	1	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	60	59	56	56
Manganese	ppm	ASTM D5185(m)	1	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	949	928	904
Calcium	ppm	ASTM D5185(m)	1070	1064	1066	1031
Phosphorus	ppm	ASTM D5185(m)	1150	994	1043	1029
Zinc	ppm	ASTM D5185(m)	1270	1199	1156	1129
Sulfur	ppm	ASTM D5185(m)	2060	2480	2561	2437
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	histor
			>25	9	6	8
Silicon	ppm	ASTM D5185(m)	200			
Silicon Sodium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	200	2	2	2
		. ,	>20		2 1	2 1
Sodium	ppm	ASTM D5185(m)		2		1
Sodium Potassium	ppm	ASTM D5185(m) ASTM D5185(m)	>20	2 <1	1	1
Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185(m) ASTM D5185(m) method	>20 limit/base	2 <1 current	1 history1	1 history

Resample at the next service interval to monitor

Machine Id

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in th oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of th oil is suitable for further service.



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I/02/01

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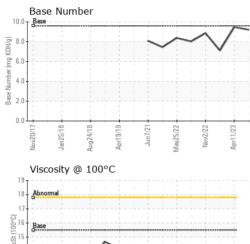
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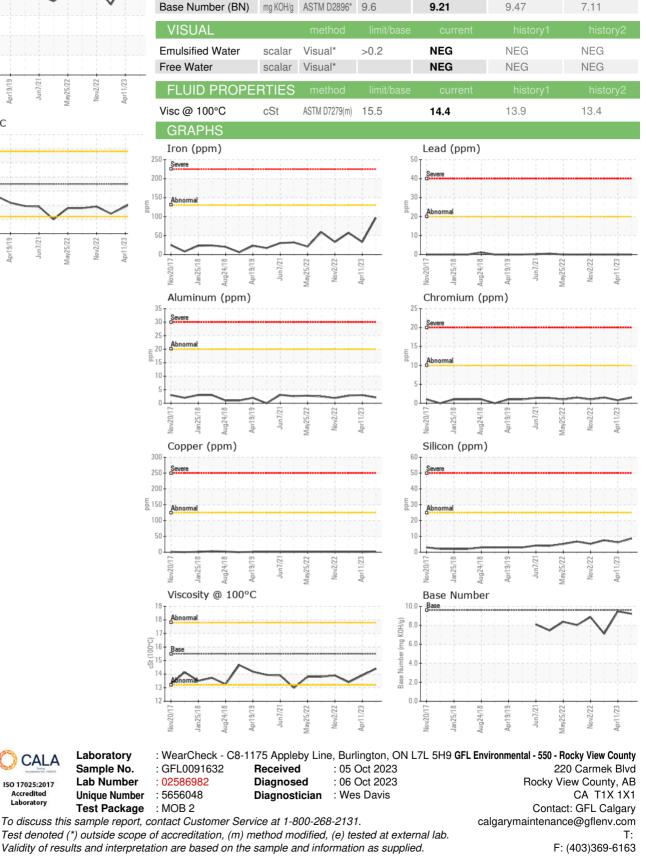
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FLUID DEGRADATION method

Abs/.1mm ASTM D7414*

Oxidation





>25

16.3

14.6

17.1

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