

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id 801062 Component

Fluid

**Diesel Engine** 

PETRO CANADA DURON XL

SAMPLE INFOR		method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112401	GFL0084282	GFL0077560
Sample Date		Client Info		08 Mar 2024	19 Jul 2023	05 Apr 2023
Achine Age	kms	Client Info		14600	280200	12874
Dil Age	kms	Client Info		1729	0	563
Dil Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Nater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>75	6	28	23
Chromium	ppm	ASTM D5185(m)	>5	0	1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	2	5	7
Lead	ppm	ASTM D5185(m)	>25	0	<1	<1
Copper	ppm	ASTM D5185(m)	>100	<1	1	1
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
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	history2
Boron	ppm	ASTM D5185(m)	1	<b>4</b> 0	2	2
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	42	56	55
Manganese	ppm	ASTM D5185(m)	1	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	<mark> </mark> 555	913	893
Calcium	ppm	ASTM D5185(m)		<mark> </mark> 1589	1002	1087
Phosphorus	ppm	ASTM D5185(m)	1150	783	989	1016
Zinc	ppm	ASTM D5185(m)	1270	892	1129	1131
Sulfur	ppm	ASTM D5185(m)	2060	2275	2279	2431
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	6	8
Sodium	ppm	ASTM D5185(m)		2	8	7
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	2
Fuel	%	ASTM D7593*	>3.0	<u> </u>	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.2	1.2	0.9
Nitration	Abs/cm	ASTM D7624*	>20	7.1	11.9	10.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.3	25.6	22.6

### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

Contamination

Light fuel dilution occurring.

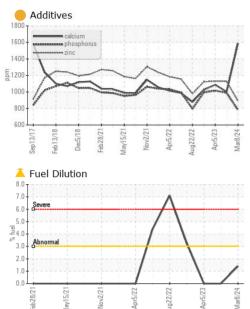
#### Fluid Condition

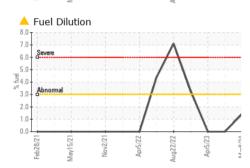
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

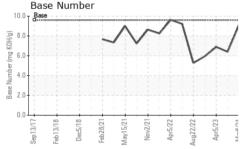
FUEL

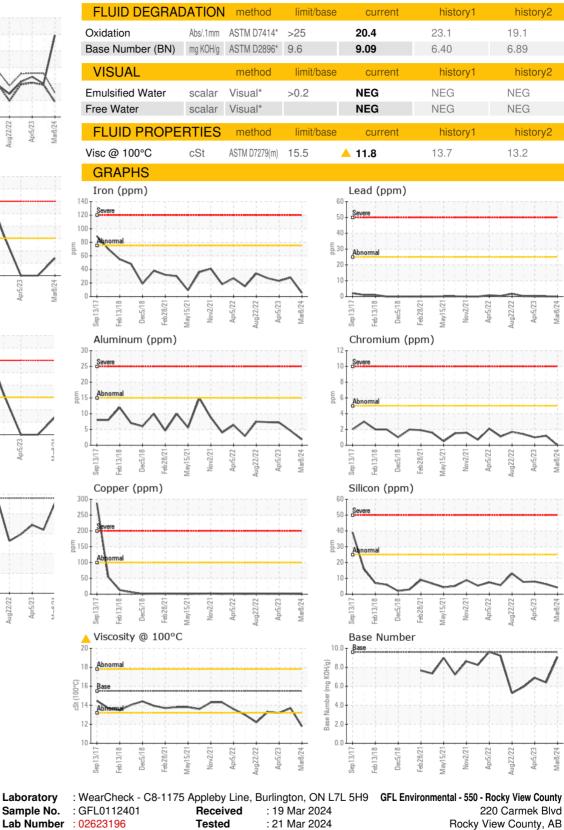


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: 21 Mar 2024 - Wes Davis

Laboratory Test Package : MOB 2 (Additional Tests: FUELDILUTION, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Diagnosed

Report Id: GFL550 [WCAMIS] 02623196 (Generated: 03/21/2024 08:12:01) Rev: 1

CALA

ISO 17025:2017 Accredited

Laboratory

Sample No.

Unique Number : 5748315

Submitted By: GFL Calgary Page 2 of 2

calgarymaintenance@gflenv.com

CA T1X 1X1

T:

Contact: GFL Calgary

F: (403)369-6163