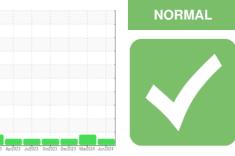


# **OIL ANALYSIS REPORT**

Sample Rating Trend



## Machine Id

## 428097

# Diesel Engine

#### Fluid PETRO CANADA DURON XL SYN BLEND 15W40 (--- LTR)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

Metal levels are typical for a new component breaking in.

#### Contamination

Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

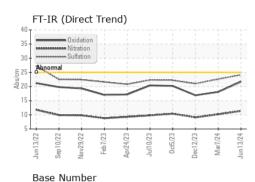
### Fluid Condition

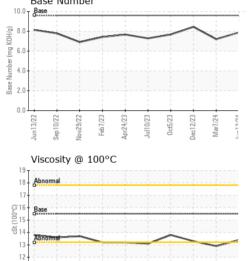
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117255	GFL0112399	GFL0099523
Sample Date		Client Info		13 Jun 2024	07 Mar 2024	12 Dec 2023
Machine Age	hrs	Client Info		624	10096	260360
Oil Age	hrs	Client Info		624	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	MARGINAL	NORMAL
-		and the state	11.0011/10.000		In the term of	history O
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	▲ 2.4	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>110	28	19	12
Chromium	ppm	ASTM D5185(m)	>4	1	<1	<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	10	4	2
Lead	ppm	ASTM D5185(m)	>45	0	0	0
Copper	ppm	ASTM D5185(m)	>85	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	history2
Boron	ppm	ASTM D5185(m)	1	8	2	2
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	58	57	56
Manganese	ppm	ASTM D5185(m)	1	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	896	916	901
Calcium	ppm	ASTM D5185(m)	1070	1010	1034	1007
Phosphorus	ppm	ASTM D5185(m)	1150	920	987	949
Zinc	ppm	ASTM D5185(m)	1270	1109	1136	1131
Sulfur	ppm	ASTM D5185(m)	2060	2286	2477	2499
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	6	8	5
Sodium	ppm	ASTM D5185(m)		6	5	5
Potassium	ppm	ASTM D5185(m)	>20	16	4	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.8	0.7	0.5
Nitration	Abs/cm	ASTM D7624*	>20	11.4	10.2	9.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.1	22.6	21.0



# **OIL ANALYSIS REPORT**





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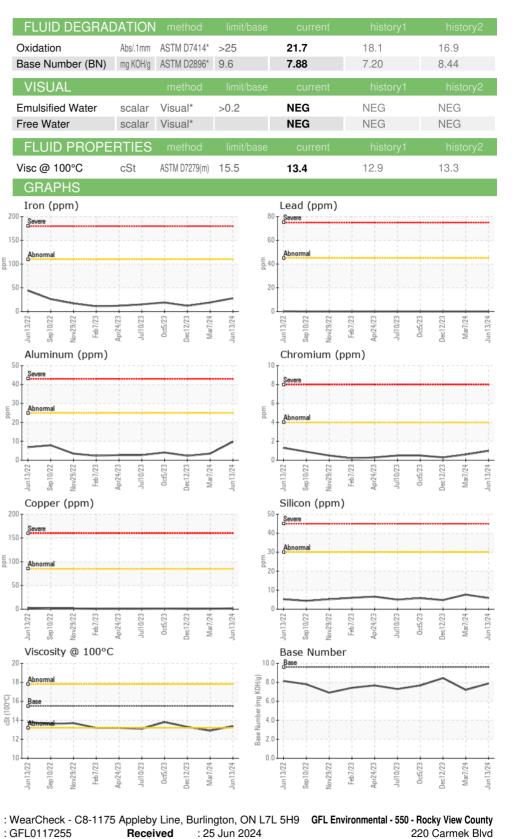
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Mar7/24

Laboratory

Sample No.

ec12/23





Lab Number : 02643975 Tested : 26 Jun 2024 Rocky View County, AB ISO 17025:2017 Accredited Unique Number : 5801514 Diagnosed : 26 Jun 2024 - Wes Davis Laboratory Test Package : MOB 2 Contact: GFL Calgary To discuss this sample report, contact Customer Service at 1-800-268-2131. calgarymaintenance@gflenv.com Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: (403)369-6163 Validity of results and interpretation are based on the sample and information as supplied.

Report Id: GFL550 [WCAMIS] 02643975 (Generated: 06/26/2024 08:32:34) Rev: 1

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Submitted By: GFL Calgary Page 2 of 2

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