

# **OIL ANALYSIS REPORT**

Sample Rating Trend



#### Machine Id **111010** Component **Diesel Engine** Fluid **PETRO CANADA 10W30 (--- LTR)**

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### 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.

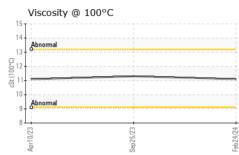
### Fluid Condition

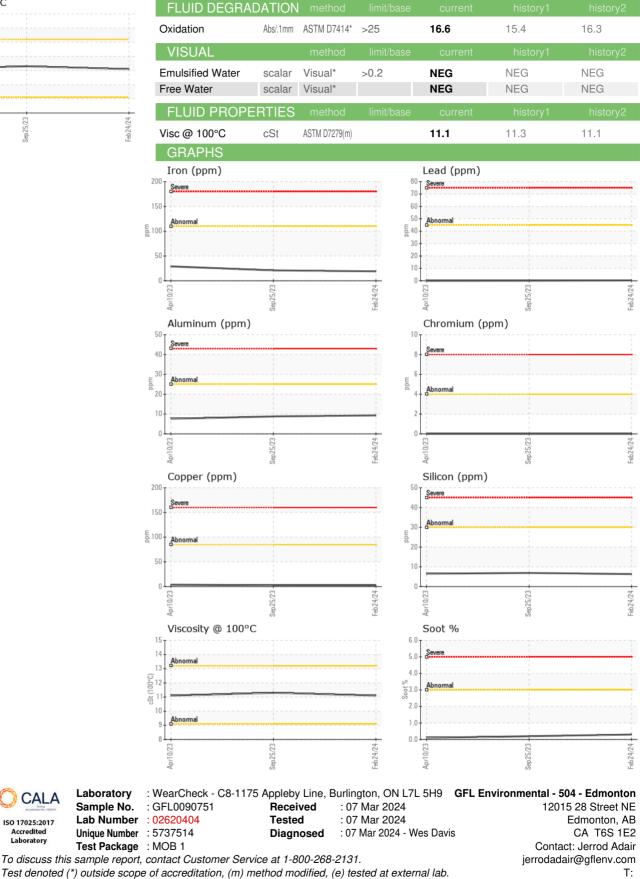
The condition of the oil is acceptable for the time in service.

		Ap	2023	Sep2023 Feb20	24	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090751	GFL0090738	GFL0069683
Sample Date		Client Info		24 Feb 2024	25 Sep 2023	10 Apr 2023
Machine Age	hrs	Client Info		2616	1801	1468
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<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	19	21	29
Chromium	ppm	ASTM D5185(m)	>4	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>2	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	9	9	8
Lead	ppm	ASTM D5185(m)	>45	<1	<1	0
Copper	ppm	ASTM D5185(m)	>85	2	3	4
Tin	ppm	ASTM D5185(m)	>4	<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	2	5
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		60	61	58
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		967	993	950
Calcium	ppm	ASTM D5185(m)		1069	1079	1186
Phosphorus	ppm	ASTM D5185(m)		995	993	1073
Zinc	ppm	ASTM D5185(m)		1169	1207	1194
Sulfur	ppm	ASTM D5185(m)		2555	2520	2670
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	6	7	6
Sodium	ppm	ASTM D5185(m)		<1	2	2
Potassium	ppm	ASTM D5185(m)	>20	18	20	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.3	0.2	0.1
Nitration	Abs/cm	ASTM D7624*	>20	8.5	7.7	9.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.7	19.5	22.6



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Validity of results and interpretation are based on the sample and information as supplied.

CALA

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Laboratory

Contact/Location: Jerrod Adair - GFL504 Page 2 of 2

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