

# **OIL ANALYSIS REPORT**

Sample Rating Trend



#### Machine Id 810061 Component Diesel Engine Fluid PETRO CANADA 15W40 (--- GAL)

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

#### 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 INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117301	GFL0044546	GFL0044520
Sample Date		Client Info		30 Apr 2024	18 Jan 2023	03 Aug 2022
Machine Age	kms	Client Info		85183	1303	605
Oil Age	kms	Client Info		0	600	300
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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)	>90	71	25	53
Chromium	ppm	ASTM D5185(m)	>20	3	<1	2
Nickel	ppm	ASTM D5185(m)	>2	1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	1
Aluminum	ppm	ASTM D5185(m)	>20	6	5	12
Lead	ppm	ASTM D5185(m)	>40	0	7	16
Copper	ppm	ASTM D5185(m)	>330	4	256	571
Tin	ppm	ASTM D5185(m)	>15	0	<1	1
Antimony	ppm	ASTM D5185(m)		0	<1	<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)		3	8	164
Barium	ppm	ASTM D5185(m)		0	0	8
Molybdenum	ppm	ASTM D5185(m)		58	62	104
Manganese	ppm	ASTM D5185(m)		<1	<1	6
Magnesium	ppm	ASTM D5185(m)		937	940	664
Calcium	ppm	ASTM D5185(m)		1038	1155	1530
Phosphorus	ppm	ASTM D5185(m)		938	1034	697
Zinc	ppm	ASTM D5185(m)		1142	1184	863
Sulfur	ppm	ASTM D5185(m)		2342	2339	1963
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	11	8	35
Sodium	ppm	ASTM D5185(m)		5	1	6
Potassium	ppm	ASTM D5185(m)	>20	4	5	15
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.3	0	0.2
Nitration	Abs/cm	ASTM D7624*	>20	7.8	6.9	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.4	19.3	22.4



3

30

2! Abs/cm

10

10.0

6.

19

18

13 Abn 12

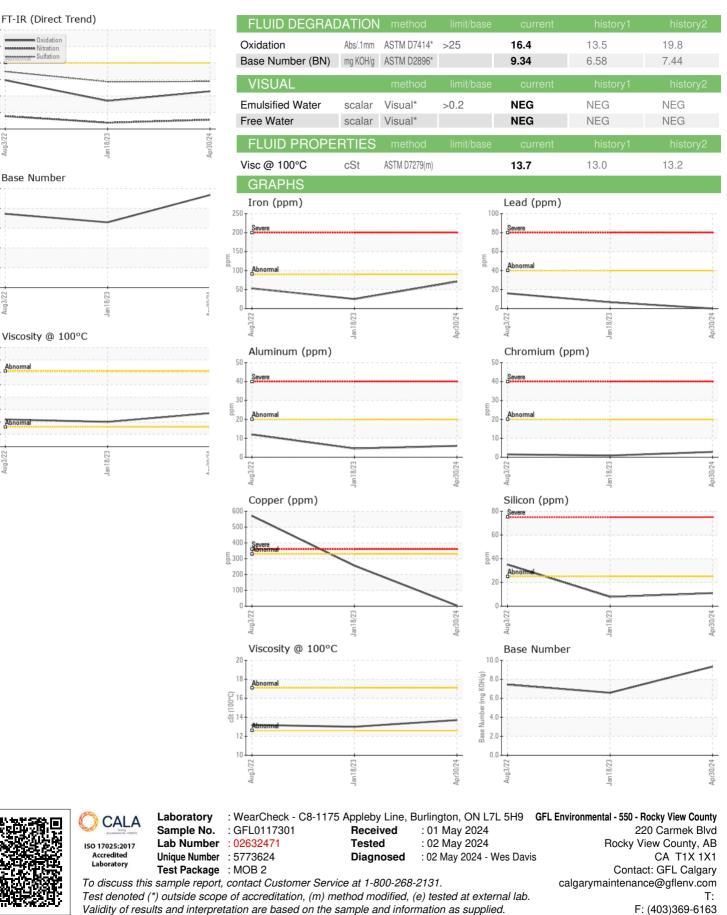
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mg KOH/g)

mbe 4.

Base 2 1103/77

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Report Id: GFL550 [WCAMIS] 02632471 (Generated: 05/02/2024 08:51:49) Rev: 1

Contact/Location: GFL Calgary - GFL550 Page 2 of 2