

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend



### Machine Id 3819C Component **Natural Gas Engine** PETRO CANADA 10W40 (8 GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

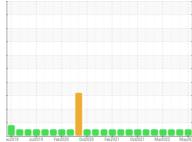
All component wear rates are normal.

#### 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.

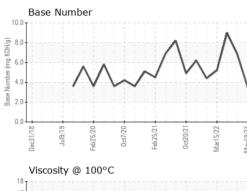


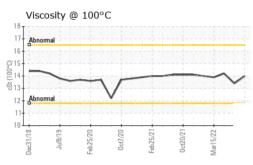


SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084247	GFL0050833	GFL0027685
Sample Date		Client Info		19 May 2023	17 Aug 2022	02 Jun 2022
Machine Age	hrs	Client Info		11844	9540	15661
Oil Age	hrs	Client Info		11844	773	500
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	9	8	31
Chromium	ppm	ASTM D5185m	>4	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>9	<1	5	2
Lead	ppm	ASTM D5185m	>30	8	1	<1
Copper	ppm	ASTM D5185m	>35	1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8	21	16
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		56	101	56
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		648	640	763
Calcium	ppm	ASTM D5185m		1759	1420	1123
Phosphorus	ppm	ASTM D5185m		822	689	925
Zinc	ppm	ASTM D5185m		1096	833	1111
Sulfur	ppm	ASTM D5185m		2913	2837	2754
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	7	12	3
Sodium	ppm	ASTM D5185m	>20	9	6	0
Potassium	ppm	ASTM D5185m	>20	2	0	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.8
Nitration	Abs/cm	*ASTM D7624	>20	11.9	9.7	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.1	23.8	18.7
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.0	17.0	13.6
Base Number (BN)	mg KOH/g	ASTM D2896		3.5	6.8	9



# **OIL ANALYSIS REPORT**





*Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NONE NORML NORML >0.1	NONE NONE NONE NONE NONE NONE NORML NORML	NONE NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE
*Visual *Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NORML NORML	NONE NONE NONE NONE NORML	NONE NONE NONE	NONE NONE NONE
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*Visual *Visual *Visual *Visual	NORML NORML	NORML		NONE
*Visual *Visual *Visual	NORML	-	NORML	
*Visual *Visual		NORML		NORML
*Visual	>0.1		NORML	NORML
		NEG	NEG	NEG
		NEG	NEG	NEG
method	limit/base	current	history1	history2
ASTM D445	j	14.0	13.4	14.2
0ct20/21 Mar15/22	May19/2			

Base Number

10.0

8. (mg KOH/g)

6.0

4.0 Base

0.0

Dec31/18

91/9/19

Feb25/20

0ct7/20

May19/23 -

: 22 May 2023

: 24 May 2023

Mar15/22



Unique Number : 10483185 Diagnostician : Don Baldridge Test Package : FLEET Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

0ct7/20

Feb25/21

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Diagnosed

Feb25/20

Viscosity @ 100°C

18

17 16

() 0-001) 14

53 13

10

Laboratory Sample No.

Lab Number

Dec31/18

91/9/J

: GFL0084247

: 05853830

Feb25/21

0ct20/21

Mar15/22

May19/23