

## **OIL ANALYSIS REPORT**

Sample Rating Trend

DIRT



Recommendation

Machine Id GZJ00314 Component

**Biogas Engine** 

Fluic

PETRO CANADA SENTRON CG 40 (145 GAL)

# ntazz Augtazz Segetazz Oczónzz Newłarz Deciarz Feszazz Martazz

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0799201	WC0699068	WC0699075
Sample Date		Client Info		10 Apr 2023	03 Apr 2023	27 Mar 2023
Machine Age	hrs	Client Info		122127	121958	121791
Oil Age	hrs	Client Info		785	617	449
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>45	5	5	4
Chromium	ppm	ASTM D5185m	>2	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	3	3
Lead	ppm	ASTM D5185m	>5	<1	<1	<1
Copper	ppm	ASTM D5185m	>14	1	2	1
Tin	ppm	ASTM D5185m	>13	6	5	4
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	0	<1	0	0
Barium	ppm	ASTM D5185m	1	0	<1	0
Molybdenum	ppm	ASTM D5185m	2	2	1	1
Manganese	ppm	ASTM D5185m	1	<1	<1	<1
Magnesium	ppm	ASTM D5185m	9	19	19	16
Calcium	ppm	ASTM D5185m	2712	3201	3103	2974
Phosphorus	ppm	ASTM D5185m	292	302	307	278
Zinc	ppm	ASTM D5185m	342	373	381	353
Sulfur	ppm	ASTM D5185m	2575	3727	4101	3883
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>200	<b>4</b> 04	<mark>▲</mark> 332	<b>4</b> 248
Sodium	ppm	ASTM D5185m		<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	0	0
Fuel	%	ASTM D3524	>4.0	0.3	0.3	0.5
		ام م مالح معر	limit/hooo	current	history1	history2
INFRA-RED		method	limit/base	ourion	TIStory	Thistory 2
	%	*ASTM D7844	iinii/base	0	0.1	0.1
Soot %	% Abs/cm					
Soot % Nitration		*ASTM D7844		0	0.1	0.1
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624	>20	0 6.2	0.1 6.0	0.1 5.6 20.0
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >30	0 6.2 22.6	0.1 6.0 21.4	0.1 5.6 20.0
Soot % Nitration Sulfation FLUID DEGRADA	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415 method *ASTM D7414	>20 >30 limit/base	0 6.2 22.6 current	0.1 6.0 21.4 history1	0.1 5.6 20.0 history2

### gallons ) **Wear**

All component wear rates are normal.

#### Contamination

Fuel content negligible. Elemental level of silicon (Si) above normal.

No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: Total oil added 99

#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Submitted By: Blain Middleton



## **OIL ANALYSIS REPORT**

scalar

scalar

scalar

method

\*Visual

\*Visual

\*Visua

limit/base

NONE

NONE

NONE

current

NONE

NONE

NONE

history1

NONE

NONE

NONE

history2

NONE

NONE

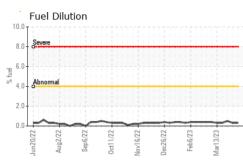
NONE

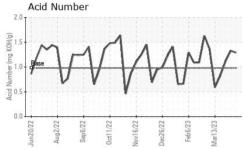
VISUAL

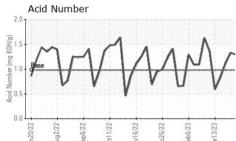
White Metal

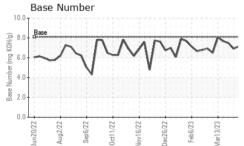
Yellow Metal

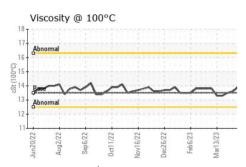
Precipitate

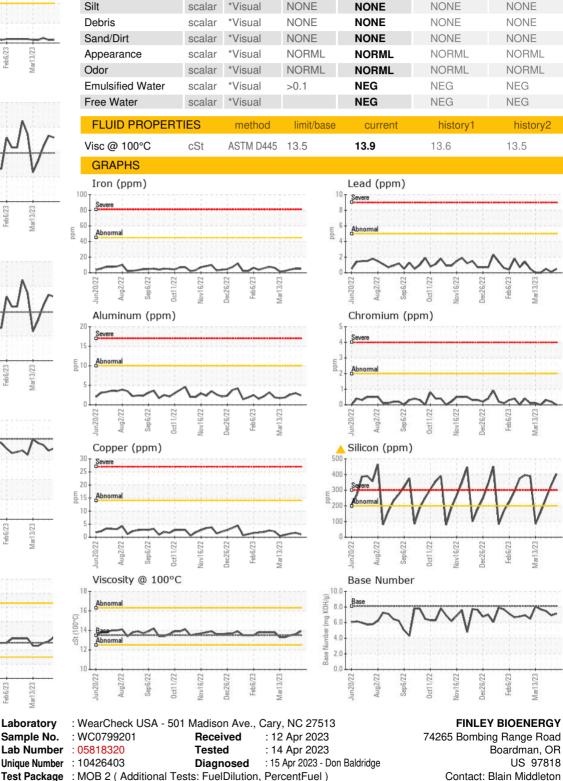












Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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