

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT



GZJ00403

Component **Biogas Engine**

PETRO CANADA SENTRON

			r un di	I		
FRON CG 40 (12022 Mar20	22 Apr2022 May2022	Jun2022 Aug2022 Sep2022	OctZOZZ	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0699062	WC0699063	WC0699056
Sample Date		Client Info		08 Nov 2022	31 Oct 2022	24 Oct 2022
Machine Age	hrs	Client Info		109933	109744	109577
Oil Age	hrs	Client Info		308	119	958
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINATIO	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
ron	ppm	ASTM D5185m	>45	4	2	9
Chromium	ppm	ASTM D5185m	>2	<1	<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	2	5
_ead	ppm	ASTM D5185m	>5	1	<1	2
Copper	ppm	ASTM D5185m	>14	2	<1	3
Tin	ppm	ASTM D5185m	>13	4	2	7
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	0	0	0
Barium	ppm	ASTM D5185m	1	0	<1	0
Molybdenum	ppm	ASTM D5185m	2	1	1	2
Vanganese	ppm	ASTM D5185m	1	<1	<1	<1
Vagnesium	ppm	ASTM D5185m	9	13	14	14
Calcium	ppm	ASTM D5185m	2712	2861	2805	3044
Phosphorus	ppm	ASTM D5185m	292	267	262	279
Zinc	ppm	ASTM D5185m	342	317	322	345
Sulfur	ppm	ASTM D5185m	2575	3898	3671	3941
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>200	A 205	115	4 71
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Fuel	%	ASTM D3524	>4.0	0.2	0.1	0.2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1

Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	4.8	4.5	5.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	16.7	22.2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	8.8	8.5	10.4
Oxidation Acid Number (AN)	Abs/.1mm mg KOH/g			8.8 0.83	8.5 0.363	10.4 1.38

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Total oil added 18 gal)

Wear

All component wear rates are normal.

Contamination

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

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

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method

limit/base

NONE

current

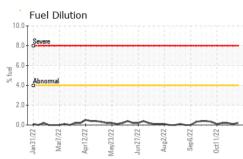
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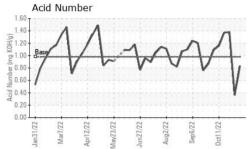
history1

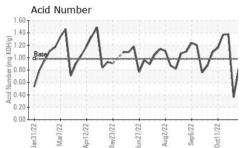
history2

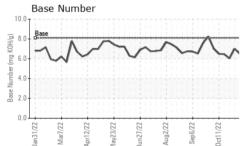
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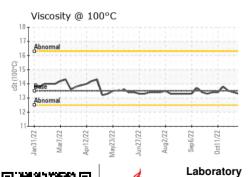
VISUAL

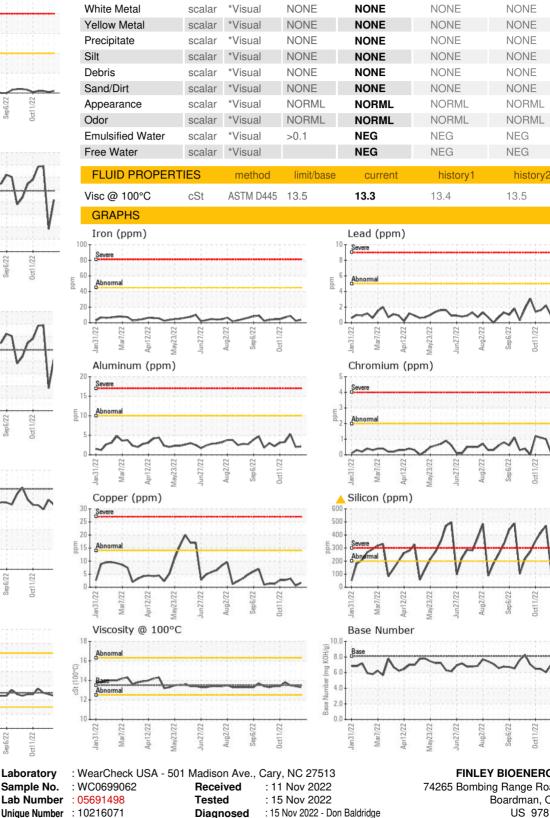












Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)



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