

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT



GZJ00403

Component Biogas Engine

PETRO CANADA SENTRON CG 40 (--- GAL)

FRON CG 40 (GAL)	2022 Mar20	Apr2022 Jun2022	Jul2022 Aug2022 Sep2022	0.42022	
SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0698995	WC0698987	WC0699062
Sample Date		Client Info		28 Nov 2022	16 Nov 2022	08 Nov 2022
Vachine Age	hrs	Client Info		110412	110125	109933
Oil Age	hrs	Client Info		787	500	308
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
ron	ppm	ASTM D5185m	>45	11	7	4
Chromium	ppm	ASTM D5185m	>2	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	3	2
Lead	ppm	ASTM D5185m	>5	3	2	1
Copper	ppm	ASTM D5185m	>14	4	3	2
Tin	ppm	ASTM D5185m		8	5	4
/anadium	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	<1	0
Barium	ppm	ASTM D5185m	1	0	0	0
Volybdenum	ppm	ASTM D5185m	2	2	2	1
Vanganese	ppm	ASTM D5185m	1	<1	<1	<1
Vagnesium	ppm	ASTM D5185m	9	17	14	13
Calcium	ppm	ASTM D5185m	2712	2924	2816	2861
Phosphorus	ppm	ASTM D5185m	292	294	277	267
Zinc	ppm	ASTM D5185m	342	348	327	317
Sulfur	ppm	ASTM D5185m	2575	3717	3501	3898
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>200	422	2 87	A 205
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Fuel	%	ASTM D3524	>4.0	0.2	0.2	0.2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.2	5.0	4.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	19.5	18.2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.1	9.5	8.8
Acid Number (AN)	mg KOH/g	ASTM D8045	0.98	1.19	0.92	0.83
	1/01/1	AOTH DOCCO	0.4	A	0.00	0.54

6.57

Base Number (BN) mg KOH/g ASTM D2896 8.1

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Total oil added 43 gal)

Fluic

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

8.99

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6.51



OIL ANALYSIS REPORT

scalar

scalar

scalar

scalar

method

*Visual

*Visual

*Visua

*Visual

scalar *Visual

limit/base

NONE

NONE

NONE

NONE

NONE

current

NONE

NONE

NONE

NONE

NONE

history1

NONE

NONE

NONE

NONE

NONE

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history2

NEG

NEG

13.3

VISUAL

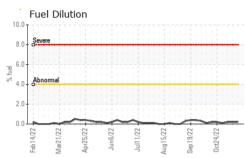
White Metal

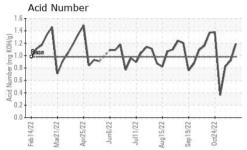
Yellow Metal

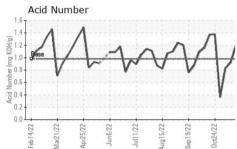
Precipitate

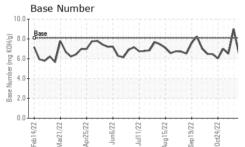
Silt

Debris

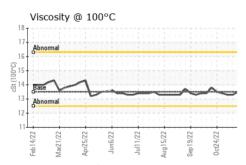


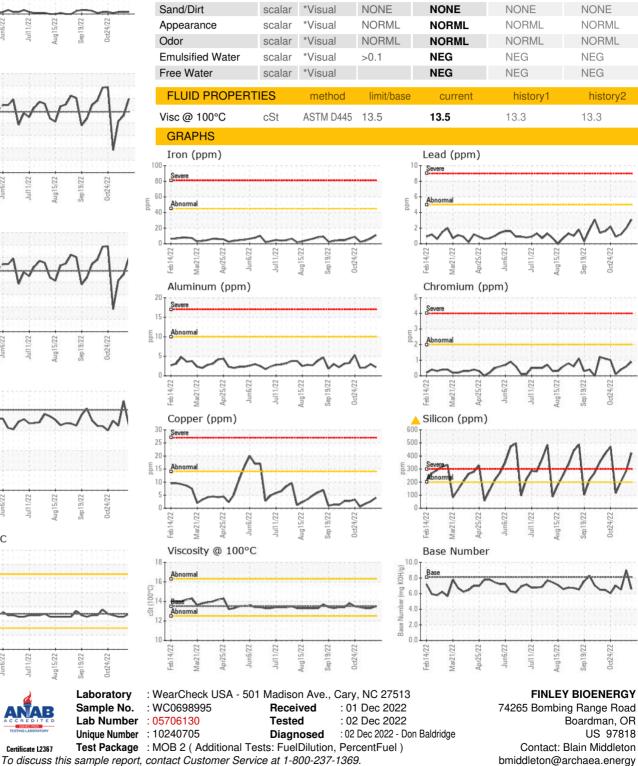






[eb]





* - 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)

Certificate L2367

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US 97818

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