

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT



Recommendation

Contamination

(Si) above normal. Fluid Condition

suitable for further service.

gallons) **Wear** Machine Id GZJ00403 Component

Biogas Engine

Fluic

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Total oil added 103

Fuel content negligible. Elemental level of silicon

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

All component wear rates are normal.

PETRO CANADA SENTRON CG 40 (--- GAL)

POZZ Avg2022 Sep3022 OctO22 Nev0022 Occ022 He2023 Mw2023

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0799203	WC0699074	WC0699067
Sample Date		Client Info		10 Apr 2023	03 Apr 2023	27 Mar 2023
Machine Age	hrs	Client Info		113547	113379	113211
Oil Age	hrs	Client Info		928	761	593
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	١	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	11	10	8
Chromium	ppm	ASTM D5185m	>2	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	2	2
Lead	ppm	ASTM D5185m	>5	2	1	1
Copper	ppm	ASTM D5185m	>14	1	2	2
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	2	1
Manganese	ppm	ASTM D5185m	1	<1	<1	<1
Magnesium	ppm	ASTM D5185m	9	18	19	16
Calcium	ppm	ASTM D5185m	2712	3099	3054	2898
Phosphorus	ppm	ASTM D5185m	292	294	302	279
Zinc	ppm	ASTM D5185m	342	363	377	352
Sulfur	ppm	ASTM D5185m	2575	3700	4106	3938
CONTAMINANTS						
		method	limit/base	current	history1	history2
Silicon	ppm	method ASTM D5185m		current	history1 ▲ 369	history2
Sodium		ASTM D5185m ASTM D5185m	>200	▲ 445 <1	▲ 369 <1	▲ 284 <1
Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>200 >20	▲ 445 <1 0	▲ 369 <1 0	▲ 284 <1 <1
Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>200 >20	▲ 445 <1	▲ 369 <1	▲ 284 <1
Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>200 >20	▲ 445 <1 0	▲ 369 <1 0	 ▲ 284 <1 <1 0.4
Sodium Potassium Fuel	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	>200 >20 >4.0	▲ 445 <1 0 0.3	▲ 369 <1 0 0.3	 284 <1 <1 0.4 history2 0.1
Sodium Potassium Fuel INFRA-RED	ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method	>200 >20 >4.0 limit/base	▲ 445 <1 0 0.3 current	▲ 369 <1 0 0.3 history1	284 <1 <1 0.4 history2
Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	>200 >20 >4.0 limit/base	▲ 445 <1 0 0.3 current 0	 ▲ 369 <1 0 0.3 history1 0.1 	284 <1 <1 0.4 history2 0.1
Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624	>200 >20 >4.0 limit/base	▲ 445 <1 0 0.3 <u>current</u> 0 5.5	 ▲ 369 <1 0 0.3 history1 0.1 5.5 	 284 <1 <1 0.4 history2 0.1 5.2 19.7
Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7415	>200 >20 >4.0 limit/base >20 >30 limit/base	 ▲ 445 <1 0 0.3 current 0 5.5 21.5 	 ▲ 369 <1 0 0.3 history1 0.1 5.5 20.7 	 284 <1 <1 0.4 history2 0.1 5.2 19.7
Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7624 *ASTM D7415	>200 >20 >4.0 limit/base >20 >30 limit/base >25	 445 <1 0 0.3 current 0 5.5 21.5 current 	 ▲ 369 <1 0 0.3 history1 0.1 5.5 20.7 history1 	<1 <1 0.4 history2 0.1 5.2 19.7 history2



OIL ANALYSIS REPORT

scalar

scalar

method

*Visual

*Visual

limit/base

NONE

NONE

current

NONE

NONE

history1

NONE

NONE

history2

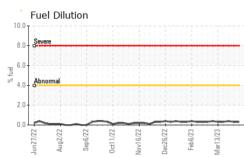
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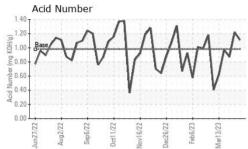
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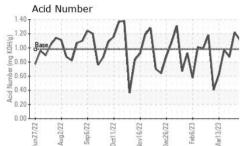
VISUAL

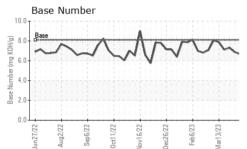
White Metal

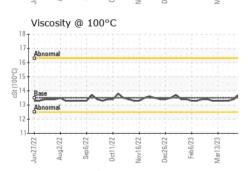
Yellow Metal

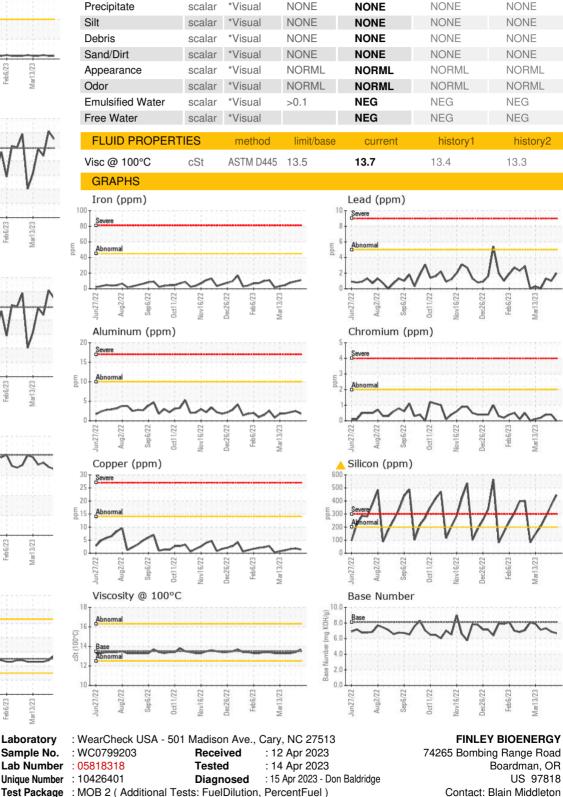












To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Certificate L2367

bmiddleton@archaea.energy

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F:

T: (541)481-3232