

OIL ANALYSIS REPORT

Sample Rating Trend



2 (S/N GZJ00315)

Component **Natural Gas Engine**

Fluid

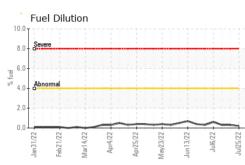
PETRO CANADA SENTRON CG 40 (145 GAL)

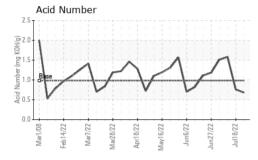
Sample Rating			DIRT
	2 Ap2022 Mm/2022 Jun/2022	Judozz	
ethod limit/ba	se current	history1	history2

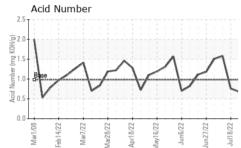
DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC0697941	WC0697939	WC0699030
lo corrective action is recommended at this time.	Sample Date		Client Info		25 Jul 2022	18 Jul 2022	11 Jul 2022
Resample at the next service interval to monitor. (Machine Age	hrs	Client Info		111768	111600	111439
Customer Sample Comment: Total oil added 46 gal	Oil Age	hrs	Client Info		252	84	929
	Oil Changed		Client Info		N/A	N/A	N/A
lear	Sample Status				ABNORMAL	NORMAL	ABNORMAL
Il component wear rates are normal.	CONTAMINATIO	N	method	limit/base		history1	history2
Contamination uel content negligible. Elemental level of silicon Si) above normal.	Water		WC Method		NEG	NEG	NEG
luid Condition	WEAR METALS		method	limit/base	current	history1	history2
he BN result indicates that there is suitable	Iron	ppm	ASTM D5185m	>50	2	2	8
kalinity remaining in the oil. The AN level is	Chromium	ppm	ASTM D5185m	>4	0	<1	<1
ceptable for this fluid. The condition of the oil is	Nickel	ppm	ASTM D5185m	>2	0	<1	0
itable for further service.	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m		2	2	4
	Lead	ppm	ASTM D5185m		- <1	1	3
	Copper	ppm	ASTM D5185m		2	<1	3
	Tin	ppm	ASTM D5185m		2	2	7
	Vanadium		ASTM D5185m	~7	0	0	0
	Cadmium	ppm	ASTM D5185m		0	<1	0
		ppm					
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	0	3	2
	Barium	ppm	ASTM D5185m	1	0	0	2
	Molybdenum	ppm	ASTM D5185m	2	1	1	2
	Manganese	ppm	ASTM D5185m	1	0	0	<1
	Magnesium	ppm	ASTM D5185m	9	11	13	12
	Calcium	ppm	ASTM D5185m	2712	2746	2745	3330
	Phosphorus	ppm	ASTM D5185m	292	263	263	324
	Zinc	ppm	ASTM D5185m	342	303	322	417
	Sulfur	ppm	ASTM D5185m		3595	3539	4223
	CONTAMINANTS	6	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>+100	1 34	67	<u> </u>
			ASTM D5185m ASTM D5185m	>+100	▲ 134 <1	67 0	▲ 389 <1
	Sodium	ppm	ASTM D5185m		<1	0	<1
				>20			
	Sodium Potassium Fuel	ppm ppm	ASTM D5185m ASTM D5185m ASTM D3524	>20 >4.0	<1 0 0.2	0 0 0.3	<1 1 0.3
	Sodium Potassium Fuel INFRA-RED	ppm ppm %	ASTM D5185m ASTM D5185m ASTM D3524 method	>20	<1 0 0.2 current	0 0 0.3 history1	<1 1 0.3 history2
	Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm %	ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	>20 >4.0 limit/base	<1 0 0.2 current 0	0 0 0.3 history1 0	<1 1 0.3 history2 0.1
	Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm % % Abs/cm	ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624	>20 >4.0 limit/base	<1 0 0.2 <u>current</u> 0 5.6	0 0.3 history1 0 4.7	<1 1 0.3 history2 0.1 7.3
	Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >4.0 limit/base >20 >30	<1 0 0.2 <u>current</u> 0 5.6 19.1	0 0.3 history1 0 4.7 16.3	<1 1 0.3 history2 0.1 7.3 25.7
	Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRAD/	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D3524 *ASTM D7844 *ASTM D7624 *ASTM D7624 *ASTM D7415 method	>20 >4.0 limit/base >20 >30 limit/base	<1 0 0.2 current 0 5.6 19.1 current	0 0.3 history1 0 4.7 16.3 history1	<1 1 0.3 history2 0.1 7.3 25.7 history2
	Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRAD/ Oxidation	ppm ppm % % Abs/cm Abs/.1mm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D3524 *ASTM D7844 *ASTM D7844 *ASTM D7624 *ASTM D7415 method *ASTM D7414	>20 >4.0 limit/base >20 >30 limit/base >25	<1 0 0.2 current 0 5.6 19.1 current 10.9	0 0.3 history1 0 4.7 16.3 history1 9.0	<1 1 0.3 history2 0.1 7.3 25.7 history2 16.9
	Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRAD/	ppm ppm % % Abs/cm Abs/.1mm Abs/.1mm Abs/.1mm g KOH/g	ASTM D5185m ASTM D5185m ASTM D3524 *ASTM D7844 *ASTM D7624 *ASTM D7624 *ASTM D7415 method	>20 >4.0 limit/base >20 >30 limit/base >25 0.98	<1 0 0.2 current 0 5.6 19.1 current	0 0.3 history1 0 4.7 16.3 history1	<1 1 0.3 history2 0.1 7.3 25.7 history2

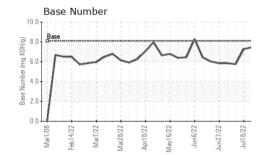


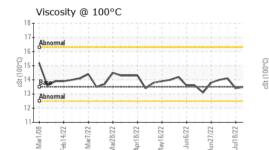
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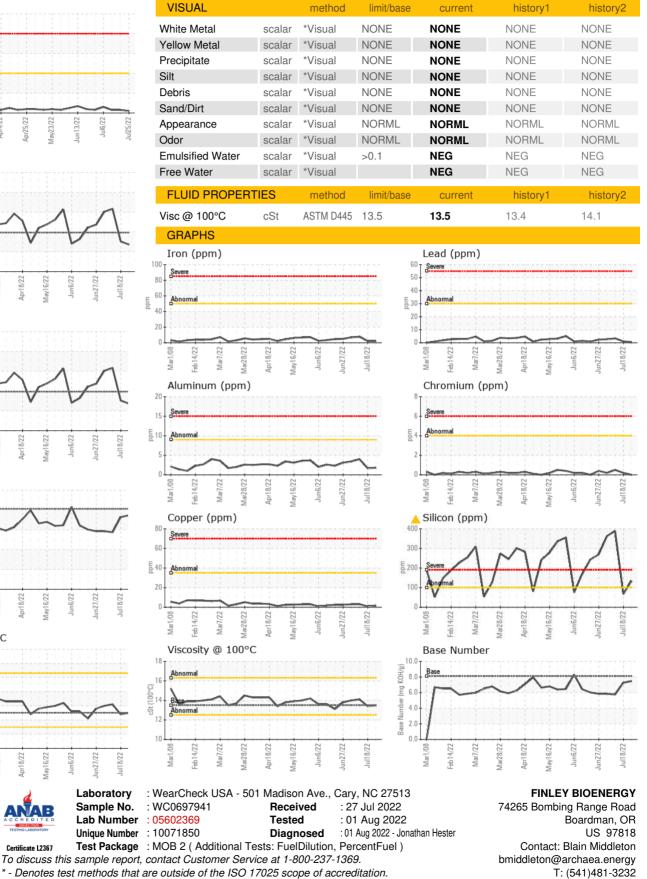












* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Certificate L2367

Laboratory

Sample No.

Lab Number

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