

OIL ANALYSIS REPORT

Sample Rating Trend



PETRO CANADA SENTRON CG 40 (145 GAL)

DIRT

SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Number		Client Info		WC0699023	WC0699016	WC0699083
Sample Date		Client Info		07 Mar 2023	27 Feb 2023	21 Feb 2023
Machine Age	hrs	Client Info		112546	121125	120992
Oil Age	hrs	Client Info		1054	862	729
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	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
Iron	ppm	ASTM D5185m	>45	6	7	6
Chromium	ppm	ASTM D5185m	>2	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>5	<1	0	0
Aluminum	ppm	ASTM D5185m	>10	2	3	2
Lead	ppm	ASTM D5185m	>5	<1	1	<1
Copper	ppm	ASTM D5185m	>14	2	3	2
Tin	ppm	ASTM D5185m	>13	6	7	6
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	<1
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m	2	<1	1	<1
Manganese	ppm	ASTM D5185m	1	<1	<1	<1
Magnesium	ppm	ASTM D5185m	9	15	15	17
Calcium	ppm	ASTM D5185m	2712	0000	3072	3033
Phosphorus	ppm			2900	0072	3033
Zinc	PPIII	ASTM D5185m	292	2900	295	284
	ppm	ASTM D5185m ASTM D5185m	292 342			
-				275	295	284
-	ppm ppm	ASTM D5185m	342	275 340 3409 current	295 383	284 326 3565 history2
Sulfur CONTAMINANTS Silicon	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	342 2575 limit/base	275 340 3409 current ▲ 390	295 383 4102 history1 ▲ 396	284 326 3565 history2 ▲ 375
Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	342 2575 limit/base >200	275 340 3409 current ▲ 390 <1	295 383 4102 history1 ▲ 396 2	284 326 3565 history2 ▲ 375 2
Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	342 2575 limit/base >200 >20	275 340 3409 current ▲ 390 <1 0	295 383 4102 history1 ▲ 396 2 0	284 326 3565 history2 ▲ 375 2 0
Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	342 2575 limit/base >200	275 340 3409 current ▲ 390 <1	295 383 4102 history1 ▲ 396 2	284 326 3565 history2 ▲ 375 2
Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	342 2575 limit/base >200 >20	275 340 3409 current ▲ 390 <1 0	295 383 4102 history1 ▲ 396 2 0	284 326 3565 history2 ▲ 375 2 0 0.4
Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	342 2575 limit/base >200 >20 >4.0 limit/base	275 340 3409 current ▲ 390 <1 0 0.4 current 0.1	295 383 4102	284 326 3565 history2 ▲ 375 2 0 0.4 history2 0.1
Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 Method	342 2575 limit/base >200 >20 >4.0 limit/base	275 340 3409 current ▲ 390 <1 0 0.4 current	295 383 4102 history1 ▲ 396 2 0 0 0.4 history1	284 326 3565 history2 ▲ 375 2 0 0 0.4 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	342 2575 limit/base >200 >20 >4.0 limit/base	275 340 3409 current ▲ 390 <1 0 0.4 current 0.1	295 383 4102	284 326 3565 history2 ▲ 375 2 0 0.4 history2 0.1
Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624	342 2575 limit/base >200 >4.0 limit/base	275 340 3409 current ▲ 390 <1 0 0.4 current 0.1 6.0	295 383 4102	284 326 3565 history2 ▲ 375 2 0 0.4 history2 0.1 6.2 22.3
Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7415	342 2575 limit/base >200 >4.0 limit/base >20 >30	275 340 3409 current ▲ 390 <1 0 0.4 current 0.1 6.0 21.3	295 383 4102 history1 396 2 0 0 0.4 history1 0.1 6.9 22.3	284 326 3565 history2 ▲ 375 2 0 0.4 history2 0.1 6.2 22.3
Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm % % % Abs/cm Abs/1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 ASTM D3524 *ASTM D7844 *ASTM D7844 *ASTM D7624 *ASTM D7415 method *ASTM D7414	342 2575 limit/base >200 >20 >4.0 limit/base >20 >30 limit/base >25	275 340 3409 current ▲ 390 <1 0 0.4 current 0.1 6.0 21.3 current	295 383 4102 history1 396 2 0 0.4 0.4 history1 0.1 6.9 22.3 history1	284 326 3565 history2 ▲ 375 2 0 0.4 history2 0.1 6.2 22.3 history2

DIAGNOSIS Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Total oil added 145 gal)

GZJ00314

Component Biogas Engine

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.

Contact/Location: Blain Middleton - FINLEX



OIL ANALYSIS REPORT

method

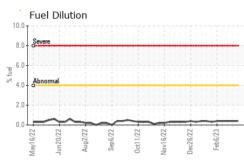
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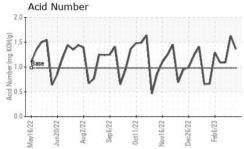
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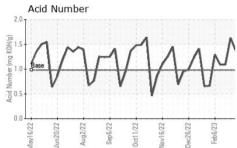
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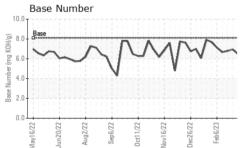
history2

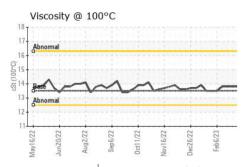
VISUAL













Certificate L2367

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