

OIL ANALYSIS REPORT



^{Machine Id} **2 (S/N GZJ00315)**

Natural Gas Engine

PETRO CANADA SENTRON CG 40 (145 GAL)





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Total oil added 107 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.

		y2022 Jun20	22 Aug2022 Sep2022	Oct2022 Nov2022 Dec2022	Feb 2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0699024	WC0699082	WC0699084
Sample Date		Client Info		07 Mar 2023	27 Feb 2023	21 Feb 2023
Machine Age	hrs	Client Info		116994	116803	116660
Oil Age	hrs	Client Info		928	737	594
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
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	6	4
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	2	3	2
Lead	ppm	ASTM D5185m	>30	<1	2	<1
Copper	ppm	ASTM D5185m	>35	2	3	2
Tin	ppm	ASTM D5185m	>4	6	6	4
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	14	17
Calcium	ppm	ASTM D5185m	2712	2878	2967	2980
Phosphorus	ppm	ASTM D5185m	292	273	286	281
Zinc	ppm	ASTM D5185m	342	339	368	318
Sulfur	ppm	ASTM D5185m	2575	3409	3986	3518
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4 351	△ 329	<u> </u>
Sodium	ppm	ASTM D5185m		<1	2	2
Potassium	ppm	ASTM D5185m	>20	0	0	0
Fuel	%	ASTM D3524	>4.0	0.4	0.3	0.3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.1	5.8	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	21.5	20.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	12.8	12.0
Acid Number (AN)	mg KOH/g	ASTM D8045	0.98	1.28	1.54	0.94
Base Number (BN)	mg KOH/g	ASTM D2896	8.1	6.36	7.15	6.78
200 (200)						



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