

OIL ANALYSIS REPORT

Sample Rating Trend





2 (S/N GZJ00315)

Natural Gas Engine

PETRO CANADA SEN

Soot %

Nitration

Sulfation

Oxidation

FLUID DEGRADATION

Base Number (BN)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Total oil added 99 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.

RON CG 40 (145	-	w2008 Feb 202	2 Mar2022 Apr2022 M	ay2022 Jun2022 Jul2022 Aug20	22 Sep2022	
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0697926	WC0697921	WC0697918
Sample Date		Client Info		19 Sep 2022	12 Sep 2022	06 Sep 2022
Machine Age	hrs	Client Info		113097	112930	112786
J	hrs	Client Info		590	423	279
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION		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	4	3
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	2	2	2
Lead	ppm	ASTM D5185m	>30	2	2	<1
Copper	ppm	ASTM D5185m	>35	2	2	1
	ppm	ASTM D5185m	>4	5	4	2
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	12	8	5
Barium	ppm	ASTM D5185m	1	0	<1	0
Molybdenum	ppm	ASTM D5185m	2	8	6	3
Manganese	ppm	ASTM D5185m	1	<1	<1	0
•	ppm	ASTM D5185m	9	13	13	10
Calcium	ppm	ASTM D5185m	2712	3191	2999	2940
	ppm	ASTM D5185m	292	299	298	285
Zinc	ppm	ASTM D5185m	342	394	357	336
Sulfur	ppm	ASTM D5185m	2575	4270	3366	3258
CONTAMINANTS		method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>+100	▲ 322	<u>^</u> 226	<u> </u>
	ppm	ASTM D5185m		70	45	26
	ppm	ASTM D5185m	>20	6	2	0
Fuel	%	ASTM D3524	>4.0	0.5	0.4	0.0
INFRA-RED		method	limit/base	current	history1	history2

*ASTM D7844

method

Abs/.1mm *ASTM D7414 >25

mg KOH/g ASTM D2896

*ASTM D7415 >30

limit/base

Abs/cm *ASTM D7624 >20

Abs/.1mm

Acid Number (AN) mg KOH/g ASTM D8045 0.98

0.1

6.9

24.0

14.5

1.26

6.35

current

0.1

6.3

21.8

12.6

1.00

6.66

history1

0.1

5.9

19.7

11.0

0.85

7.68

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)

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