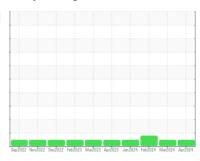


# **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id

# Liberty 1 Component Natural Gas Engine

PETRO CANADA SENTRON LD 3000 (--- GAL)

## DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

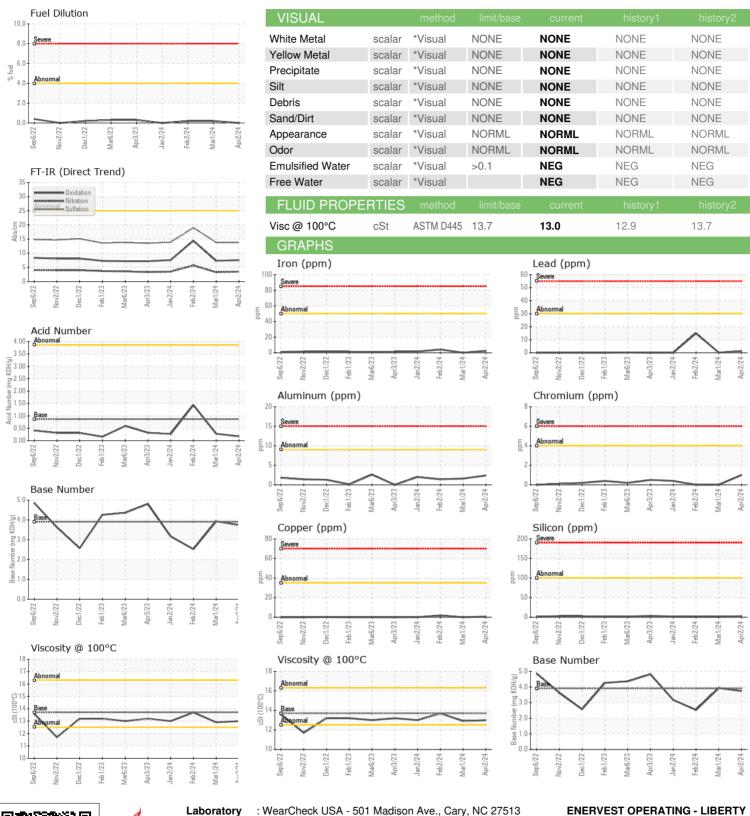
## **Fluid Condition**

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.

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SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0111972	PCA0117137	PCA0111968
Sample Date		Client Info		02 Apr 2024	01 Mar 2024	02 Feb 2024
Machine Age	hrs	Client Info		70936	70196	69528
Oil Age	hrs	Client Info		12726	11986	11318
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	2	0	4
Chromium	ppm	ASTM D5185m	>4	1	0	0
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	2	1
Lead	ppm	ASTM D5185m	>30	1	<1	<b>1</b> 5
Copper	ppm	ASTM D5185m	>35	<1	0	2
Tin	ppm	ASTM D5185m	>4	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m	2	2	<1	<1
Manganese	ppm		1	<1	<1	<1
Magnesium	ppm	ASTM D5185m	5	10	9	16
Calcium	ppm	ASTM D5185m	1220	1716	1179	1406
Phosphorus	ppm	ASTM D5185m	298	395	270	327
Zinc	ppm	ASTM D5185m	350	457	342	396
Sulfur	ppm	ASTM D5185m	1995	3448	2240	2329
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	1	1
Sodium	ppm	ASTM D5185m		0	1	2
Potassium	ppm	ASTM D5185m	>20	2	1	2
Fuel	%	ASTM D3524	>4.0	0.0	0.2	0.2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624		3.5	3.3	5.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	13.8	13.8	19.0
FLUID DEGRAD			limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	7.6	7.3	14.4
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	0.17	0.28	1.44
Base Number (BN)	mg KOH/g	ASTM D2896	3.9	3.74	3.93	2.52



## **OIL ANALYSIS REPORT**







Laboratory

Sample No.

: PCA0111972 Lab Number : 06146065 Unique Number : 10976143

Received : 11 Apr 2024 **Tested** 

: 16 Apr 2024 : 16 Apr 2024 - Jonathan Hester Diagnosed

318 SINGLETON ROAD

NORA, VA US 24272 Contact: Service Manager

Test Package: MOB 2 (Additional Tests: FuelDilution, PercentFuel) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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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