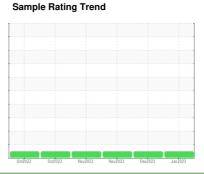


OIL ANALYSIS REPORT

LONGHORN A **LONGHORN A UNIT 3 (S/N 1494549)**

Natural Gas Engine

PETRO CANADA SENTRON LD 8000 (--- 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.

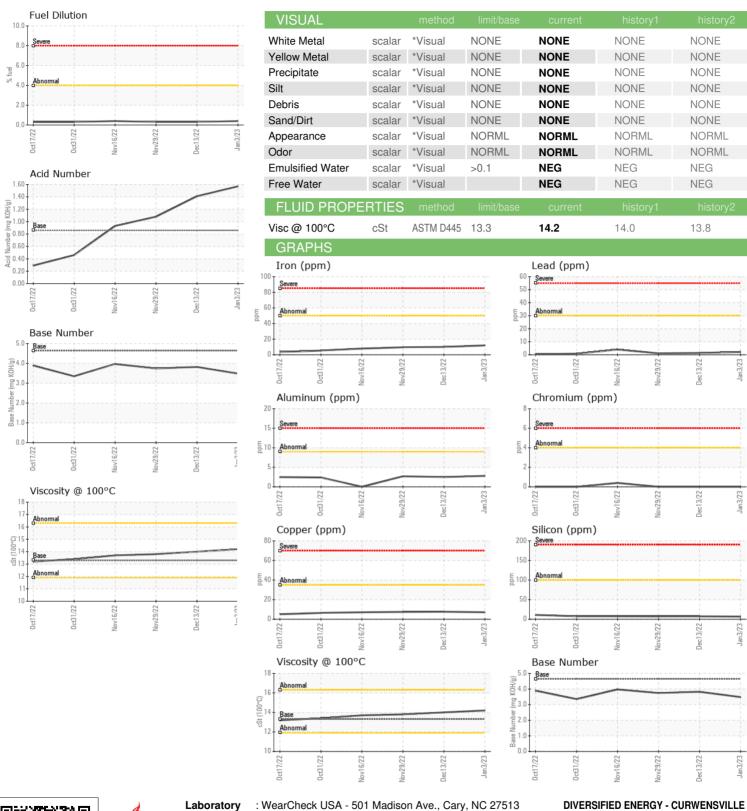
Fluid Condition

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.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0080821	PCA0080818	PCA0080815
Sample Date		Client Info		03 Jan 2023	13 Dec 2022	29 Nov 2022
Machine Age	hrs	Client Info		2074	1569	1236
Oil Age	hrs	Client Info		2074	1569	1236
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
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	12	10	10
Chromium	ppm	ASTM D5185m	>4	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	3	2	3
Lead	ppm	ASTM D5185m	>30	2	1	1
Copper	ppm	ASTM D5185m	>35	7	8	8
Tin	ppm	ASTM D5185m	>4	1	1	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	1-1-	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	2
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		2	2	2
Manganese	ppm	ASTM D5185m		- <1	<1	<1
Magnesium	ppm	ASTM D5185m		20	20	23
Calcium	ppm	ASTM D5185m	1351	1590	1534	1424
Phosphorus	ppm	ASTM D5185m	302	311	309	328
Zinc	ppm	ASTM D5185m	358	368	369	365
Sulfur	ppm	ASTM D5185m	2758	3071	3184	3114
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	7	7	7
Sodium	ppm	ASTM D5185m	- 1100	3	3	3
Potassium	ppm	ASTM D5185m	>20	0	0	0
Fuel	%	ASTM D3524	>4.0	0.4	0.3	0.3
INFRA-RED	70	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.5	8.4	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	19.3	18.9
FLUID DEGRAI			limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	16.5	15.0
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	1.57	1.41	1.08
Base Number (BN)	mg KOH/g	ASTM D8045 ASTM D2896	4.64	3.48	3.82	3.74
Dase Mullibel (DIN)	iliy N∪⊓/ÿ	70 LINI D5030	4.04	3.40	0.02	3.74



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

: PCA0080821 : 05731687

Unique Number: 10281285

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

Received : 05 Jan 2023 **Tested** : 06 Jan 2023 Diagnosed

: 06 Jan 2023 - Don Baldridge

325 WALNUT ST FL2 CURWENSVILLE, PA

> US 16833 Contact: ZACH MCGARY

Test Package: MOB 2 (Additional Tests: FuelDilution, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-237-1369. zmcgary@dgoc.com T: * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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