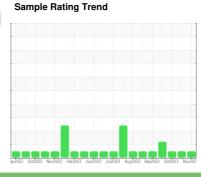


OIL ANALYSIS REPORT

LONGHORN C **LONGHORN C (S/N 1645612)**

Natural Gas Engine

PETRO CANADA SENTRON LD 3000 (--- GAL)





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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.

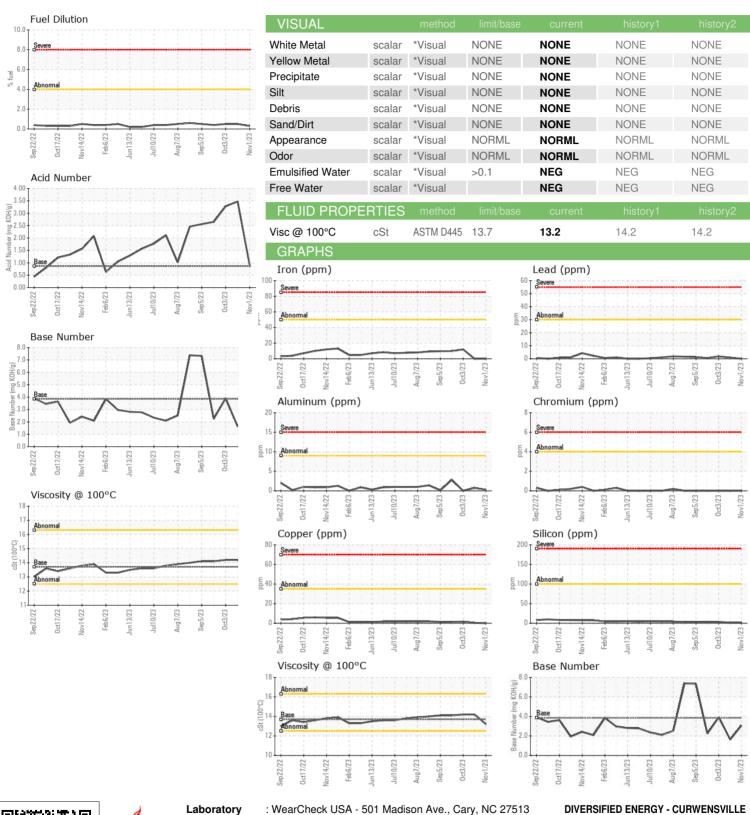
Fluid Condition

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 INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0080859	PCA0080858	PCA0080857
Sample Date		Client Info		01 Nov 2023	13 Oct 2023	03 Oct 2023
Machine Age	hrs	Client Info		6150	5701	5462
Oil Age	hrs	Client Info		307	3760	3521
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	12
Chromium	ppm	ASTM D5185m	>4	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	<1	<1	0
Lead	ppm	ASTM D5185m	>30	0	<1	2
Copper	ppm	ASTM D5185m	>35	0	<1	2
Tin	ppm	ASTM D5185m	>4	0	0	<1
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	5	5	0	2
Barium	ppm	ASTM D5185m	1	0	0	2
Molybdenum	ppm	ASTM D5185m	2	<1	<1	1
Manganese	ppm	ASTM D5185m	1	0	0	<1
Magnesium	ppm	ASTM D5185m	5	8	8	8
Calcium	ppm	ASTM D5185m	1220	1295	1377	1321
Phosphorus	ppm	ASTM D5185m	298	269	267	305
Zinc	ppm	ASTM D5185m	350	335	356	371
Sulfur	ppm	ASTM D5185m	1995	2946	2135	2646
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	1	2	4
Sodium	ppm	ASTM D5185m		2	6	<1
Potassium	ppm	ASTM D5185m	>20	1	2	2
Fuel	%	ASTM D3524	>4.0	0.3	0.5	0.5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	6.1	13.2	12.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	14.3	21.7	20.5
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.2	23.1	21.2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	0.90	△ 3.47	3.28
Base Number (BN)	mg KOH/g	ASTM D2896	3.85	3.07	▲ 1.62	3.91



OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 06002375

: PCA0080859 : 10736137

Received : 08 Nov 2023 Diagnosed Diagnostician : Wes Davis

: 10 Nov 2023

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

* - 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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