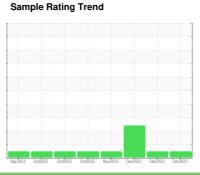


OIL ANALYSIS REPORT

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

Natural Gas Engine

PETRO CANADA SENTRON LD 3000 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment:

Top Up Amount: 10 GAL)

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	history 1	history 2
Sample Number		Client Info		PCA0080850	PCA0080847	PCA0080846
Sample Date		Client Info		25 Feb 2023	06 Feb 2023	13 Dec 2022
Machine Age	hrs	Client Info		2617	2166	1799
Oil Age	hrs	Client Info		676	225	1799
Oil Changed		Client Info		Oil Added	Changed	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METALS	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	5	5	13
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	<1	0	1
Lead	ppm	ASTM D5185m	>30	1	<1	2
Copper	ppm	ASTM D5185m	>35	2	1	6
Tin	ppm	ASTM D5185m	>4	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	5	<1	0	0
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	5	12	8	8
Calcium	ppm	ASTM D5185m	1220	1284	1259	1361
Phosphorus	ppm	ASTM D5185m	298	285	257	293
Zinc	ppm	ASTM D5185m	350	359	314	348
Sulfur	ppm	ASTM D5185m	1995	2477	2389	2494
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>+100	4	4	8
Sodium	ppm	ASTM D5185m		2	2	5
Potassium	ppm	ASTM D5185m	>20	1	0	<1
Fuel	%	ASTM D3524	>4.0	0.5	0.4	0.4
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.6	5.4	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.2	14.1	21.2
FLUID DEGRAD	ATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.7	9.1	19.0
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	1.05	0.63	<u>^</u> 2.08
Base Number (BN)	mg KOH/g	ASTM D2896	3.85	2.96	3.84	<u>^</u> 2.08
(=	33					



OIL ANALYSIS REPORT







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

: 05784599

: PCA0080850 : 10364269

Received : 06 Mar 2023 Diagnosed : 08 Mar 2023 Diagnostician : Don Baldridge

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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F: