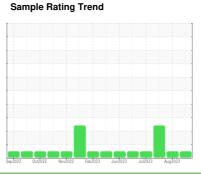


OIL ANALYSIS REPORT

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	/ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0080862	PCA0080855	PCA0080863
Sample Date		Client Info		23 Aug 2023	07 Aug 2023	24 Jul 2023
Machine Age	hrs	Client Info		4559	4202	3875
Oil Age	hrs	Client Info		2618	2261	1934
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	9	8	8
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	1	1
Lead	ppm	ASTM D5185m	>30	2	2	1
Copper	ppm	ASTM D5185m	>35	2	2	2
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	1	1	0	0
Molybdenum	ppm	ASTM D5185m	2	1	<1	<1
Manganese	ppm	ASTM D5185m	1	<1	<1	<1
Magnesium	ppm	ASTM D5185m	5	8	12	8
Calcium	ppm	ASTM D5185m	1220	1438	1408	1361
Phosphorus	ppm	ASTM D5185m	298	306	299	296
Zinc	ppm	ASTM D5185m	350	393	359	357
Sulfur	ppm	ASTM D5185m	1995	2497	2414	2443
CONTAMINAN [*]	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	4	4
Sodium	ppm	ASTM D5185m		2	6	4
Potassium	ppm	ASTM D5185m	>20	2	2	<1
Fuel	%	ASTM D3524	>4.0	0.6	0.5	0.4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.6	11.2	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	19.5	18.9
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5	18.4	17.0
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	2.46	1.02	<u>^</u> 2.11
Base Number (BN)	mg KOH/g	ASTM D2896	3.85	7.38	2.52	2.09



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

Unique Number

: PCA0080862 : 05935609 : 10620880

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Aug 2023 Diagnosed

: 29 Aug 2023 Diagnostician : Wes Davis

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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