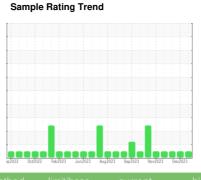


OIL ANALYSIS REPORT

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

Natural Gas Engine

PETRO CANADA SENTRON LD 3000 (190 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.

17/2022 Ost2022 Feb2023 Jun2023 Aug2023 Sep2023 Nov2023 Dec2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0096588	PCA0096596	PCA0096597
Sample Date		Client Info		27 Dec 2023	11 Dec 2023	28 Nov 2023
Machine Age	hrs	Client Info		7334	6989	6766
Oil Age	hrs	Client Info		1491	1146	923
Oil Changed		Client Info		N/A	N/A	Oil Added
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	4	5	3
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	<1	2	<1
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>35	<1	2	1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<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	0	0	0
Molybdenum	ppm	ASTM D5185m	2	<1	1	1
Manganese	ppm	ASTM D5185m	1	<1	0	0
Magnesium	ppm	ASTM D5185m	5	11	8	28
Calcium	ppm	ASTM D5185m	1220	1284	1384	1303
Phosphorus	ppm	ASTM D5185m	298	311	337	293
Zinc	ppm	ASTM D5185m	350	366	370	363
Sulfur	ppm	ASTM D5185m	1995	2183	2345	2151
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	2	2	2
Sodium	ppm	ASTM D5185m		1	0	3
Potassium	ppm	ASTM D5185m	>20	0	2	<1
Fuel	%	ASTM D3524	>4.0	0.3	0.3	0.1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.3	8.9	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	17.4	16.4
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	14.5	13.0
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	1.98	1.60	1.273
Base Number (BN)	mg KOH/g	ASTM D2896	3.85	2.35	2.50	2.58



OIL ANALYSIS REPORT







Laboratory Sample No.

Lab Number

: 06060387 Unique Number: 10831769

:St (100°C)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0096588 Received : 12 Jan 2024 : 16 Jan 2024

Tested Diagnosed

: 16 Jan 2024 - 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)

Viscosity @ 100°C

DIVERSIFIED ENERGY - CURWENSVILLE

0ct31/22

Base Number

KOH/a)

Dec11/23

325 WALNUT ST FL2 CURWENSVILLE, PA US 16833

Contact: ZACH MCGARY

zmcgary@dgoc.com T:

F: