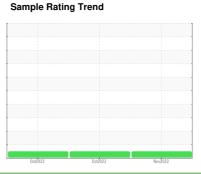


OIL ANALYSIS REPORT

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

Natural Gas Engine

PETRO CANADA SENTRON LD 8000 (--- G





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Metal levels are typical for a new component breaking in.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

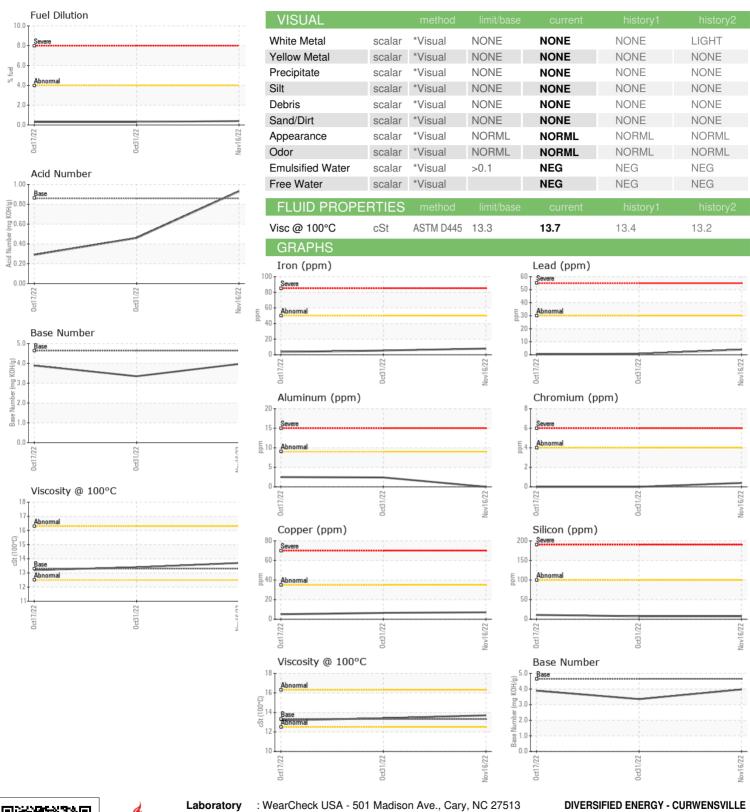
Fluid Condition

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.

AL)		Oc	2022	Oct2022 Nov20	222	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0080827	PCA0080829	PCA0080832
Sample Date		Client Info		16 Nov 2022	31 Oct 2022	17 Oct 2022
Machine Age	hrs	Client Info		989	647	318
Oil Age	hrs	Client Info		989	647	318
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
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	8	5	4
Chromium	ppm	ASTM D5185m	>4	<1	0	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	0	2	2
Lead	ppm	ASTM D5185m	>30	4	<1	<1
Copper	ppm	ASTM D5185m	>35	7	6	5
Tin	ppm	ASTM D5185m	>4	2	1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	2	2
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		2	2	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		25	20	19
Calcium	ppm	ASTM D5185m	1351	1503	1478	1456
Phosphorus	ppm	ASTM D5185m	302	319	297	300
Zinc	ppm	ASTM D5185m	358	369	373	375
Sulfur	ppm	ASTM D5185m	2758	3127	3188	3623
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	8	8	11
Sodium	ppm	ASTM D5185m		3	0	<1
Potassium	ppm	ASTM D5185m	>20	3	3	3
Fuel	%	ASTM D3524	>4.0	0.4	0.3	0.3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.1	6.2	5.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	18.4	18.2
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	13.1	11.9
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	0.93	0.46	0.29
Base Number (BN)	mg KOH/g	ASTM D2896	4.64	3.97	3.35	3.89



OIL ANALYSIS REPORT





Sample No. Lab Number

: 05699890 Unique Number: 10229464

: PCA0080827

Tested Diagnosed Test Package: MOB 2 (Additional Tests: FuelDilution, PercentFuel)

Received : 21 Nov 2022

: 23 Nov 2022 : 23 Nov 2022 - Wes Davis 325 WALNUT ST FL2 CURWENSVILLE, PA US 16833

> Contact: ZACH MCGARY zmcgary@dgoc.com

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)

T: F: