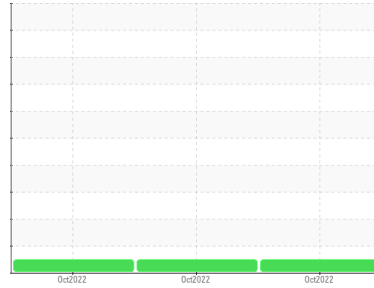


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**


Area  
**LONGHORN A**  
 Machine Id  
**LONGHORN A UNIT 2 (S/N 1494554)**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA SENTRON LD 8000 (--- GAL)**

**DIAGNOSIS**
**Recommendation**

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

**Wear**

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.

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0080830</b>	PCA0080833	PCA0080835
Sample Date	Client Info		<b>31 Oct 2022</b>	17 Oct 2022	03 Oct 2022
Machine Age	hrs	Client Info	<b>902</b>	573	262
Oil Age	hrs	Client Info	<b>902</b>	573	262
Oil Changed	Client Info		<b>Not Changed</b>	Not Changd	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

**CONTAMINATION**

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>7</b>	5	4
Chromium	ppm	ASTM D5185m >4	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m >2	<b>0</b>	0	2
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >9	<b>2</b>	2	2
Lead	ppm	ASTM D5185m >30	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m >35	<b>7</b>	6	4
Tin	ppm	ASTM D5185m >4	<b>1</b>	1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>2</b>	2	2
Barium	ppm	ASTM D5185m	<b>2</b>	0	2
Molybdenum	ppm	ASTM D5185m	<b>2</b>	2	2
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>18</b>	17	18
Calcium	ppm	ASTM D5185m 1351	<b>1461</b>	1447	1454
Phosphorus	ppm	ASTM D5185m 302	<b>284</b>	284	289
Zinc	ppm	ASTM D5185m 358	<b>356</b>	356	371
Sulfur	ppm	ASTM D5185m 2758	<b>3267</b>	3521	3574

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>7</b>	7	9
Sodium	ppm	ASTM D5185m	<b>0</b>	0	3
Potassium	ppm	ASTM D5185m >20	<b>2</b>	3	3
Fuel	%	ASTM D3524 >4.0	<b>0.3</b>	0.3	0.4

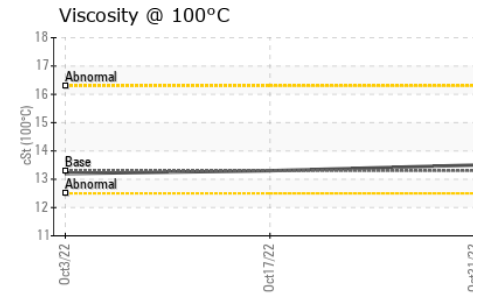
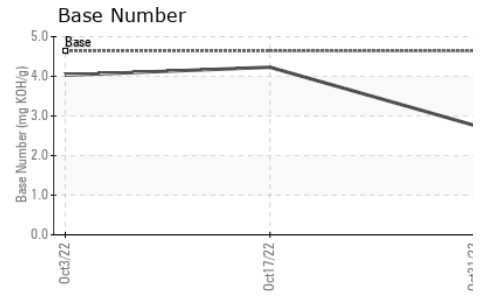
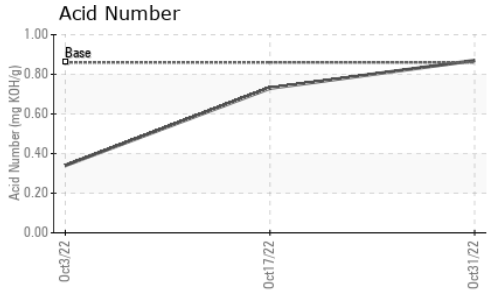
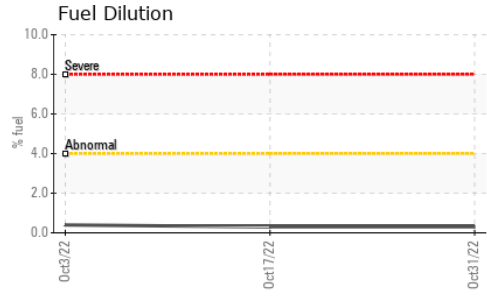
**INFRA-RED**

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>7.2</b>	6.1	4.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>18.0</b>	17.8	18.4

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>13.6</b>	12.6	11.7
Acid Number (AN)	mg KOH/g	ASTM D8045 0.86	<b>0.87</b>	0.73	0.34
Base Number (BN)	mg KOH/g	ASTM D2896 4.64	<b>2.76</b>	4.23	4.03

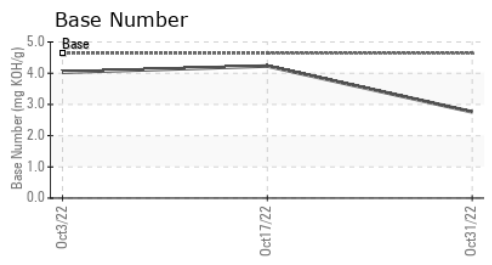
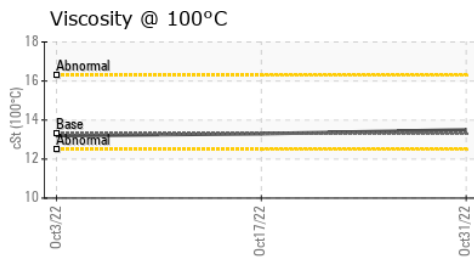
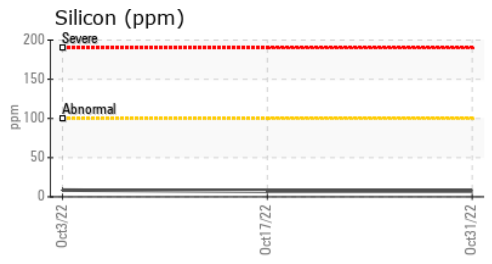
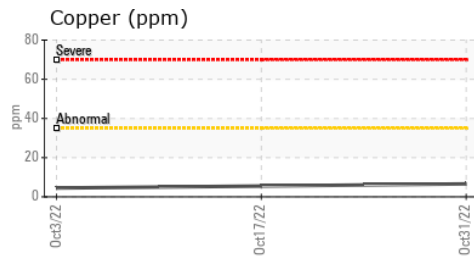
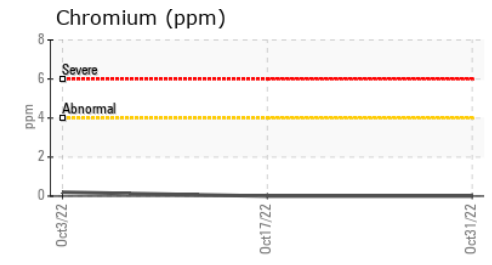
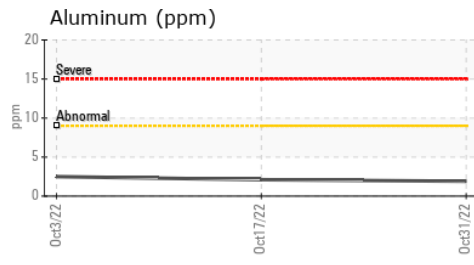
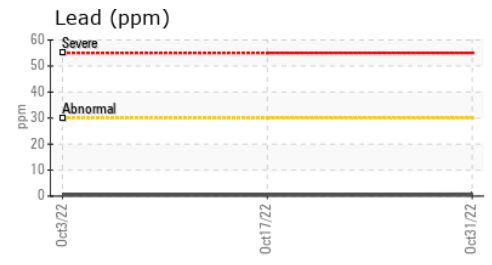
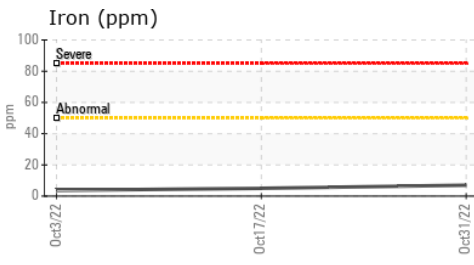
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.3	<b>13.5</b>	13.3

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0080830      **Received** : 03 Nov 2022  
**Lab Number** : **05684530**      **Tested** : 09 Nov 2022  
**Unique Number** : 10204102      **Diagnosed** : 09 Nov 2022 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: FuelDilution, PercentFuel )

**DIVERSIFIED ENERGY - CURWENSVILLE**  
 325 WALNUT ST FL2  
 CURWENSVILLE, PA  
 US 16833  
 Contact: ZACH MCGARY  
 zmcgary@dgoc.com

Certificate L2367  
 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)