

Area
LONGHORN C
Machine Id
LONGHORN C (S/N 1645612)
Component
Natural Gas Engine
Fluid
PETRO CANADA SENTRON LD 3000 (190 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Top Up Amount: 4 GAL)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0080842	PCA0080840	PCA0096592
Sample Date		Client Info		01 Jul 2024	21 Jun 2024	18 Mar 2024
Machine Age	hrs	Client Info		11539	11360	9233
Oil Age	hrs	Client Info		1929	1750	3390
Filter Age	hrs	Client Info		39	1750	1232
Oil Changed		Client Info		Oil Added	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	7	7	10
Chromium	ppm	ASTM D5185m	>4	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	3	2
Lead	ppm	ASTM D5185m	>30	<1	<1	<1
Copper	ppm	ASTM D5185m	>35	1	2	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

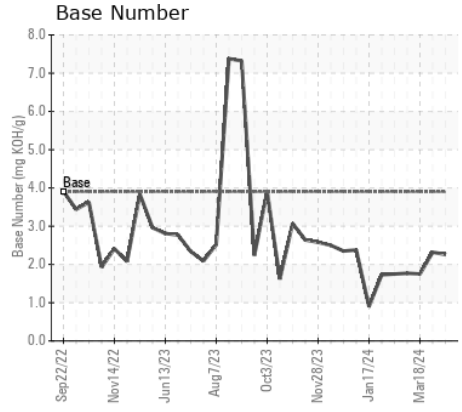
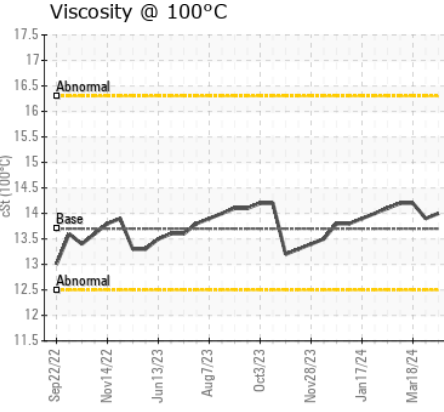
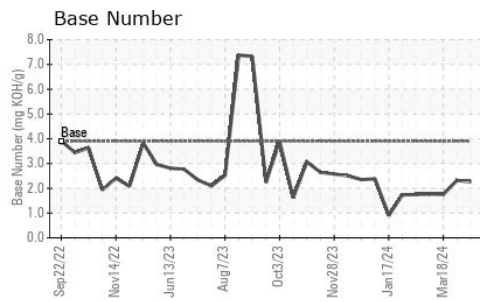
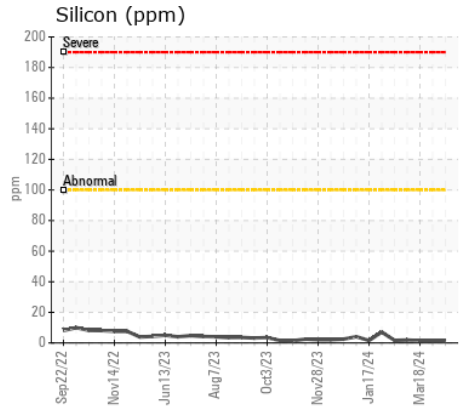
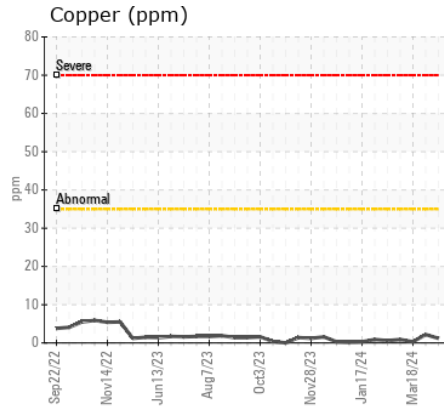
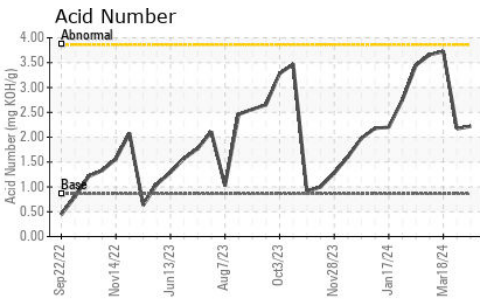
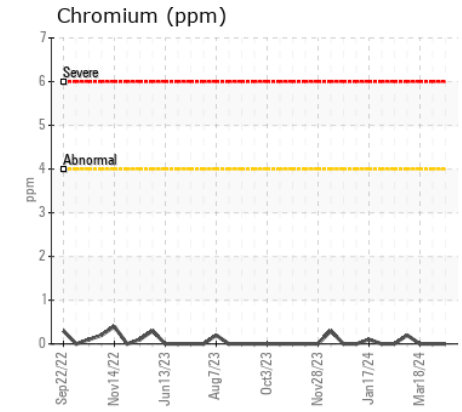
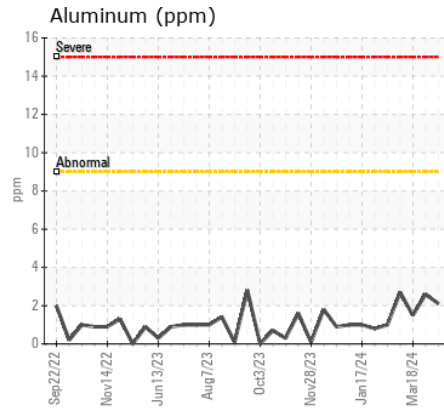
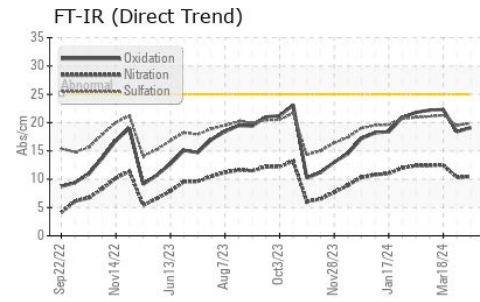
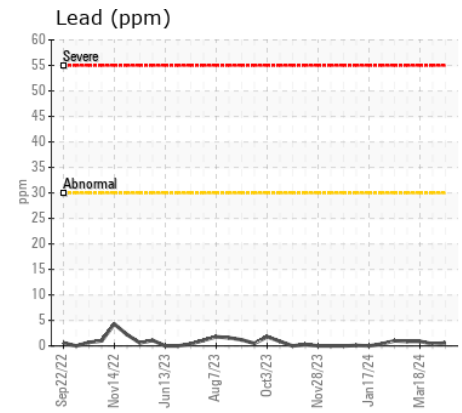
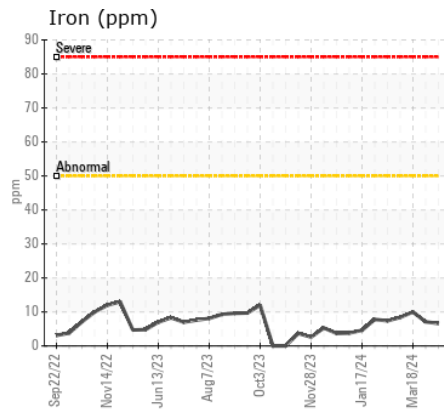
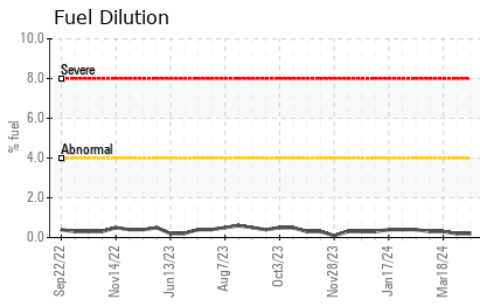
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	1	2	2
Potassium	ppm	ASTM D5185m	>20	2	2	0
Fuel	%	ASTM D3524	>4.0	0.2	0.2	0.3
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	10.5	10.3	12.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	19.5	21.3
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185m		4	4	4
Boron	ppm	ASTM D5185m	5	0	<1	7
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m	2	<1	2	<1
Manganese	ppm	ASTM D5185m	1	0	0	0
Magnesium	ppm	ASTM D5185m	5	9	16	4
Calcium	ppm	ASTM D5185m	1220	1493	1462	1418
Phosphorus	ppm	ASTM D5185m	298	311	313	310
Zinc	ppm	ASTM D5185m	350	375	379	364
Sulfur	ppm	ASTM D5185m	1995	2887	2815	2442
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	18.4	22.3
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	2.22	2.17	▲ 3.723
Base Number (BN)	mg KOH/g	ASTM D2896	3.9	2.26	2.32	▲ 1.75
Visc @ 100°C	cSt	ASTM D445	13.7	14.0	13.9	14.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0080842
Lab Number : 06229271
Unique Number : 11112764
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

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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