

Machine Id
Hurricane Creek 3
Component
Natural Gas Engine
Fluid
PETRO CANADA SENTRON LD 3000 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0117215	PCA0117209	PCA0111998
Sample Date		Client Info		10 Jul 2024	03 Jun 2024	02 May 2024
Machine Age	hrs	Client Info		146043	146043	145274
Oil Age	hrs	Client Info		7517	6658	5889
Filter Age	hrs	Client Info		1532	0	5889
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

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

CONTAMINATION

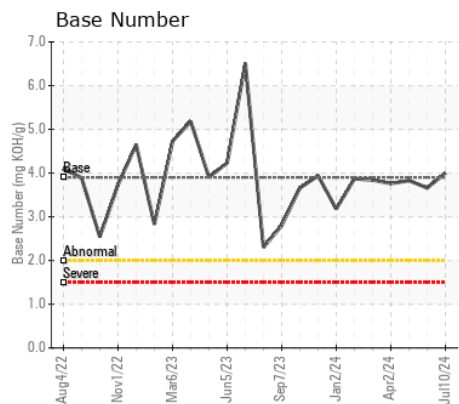
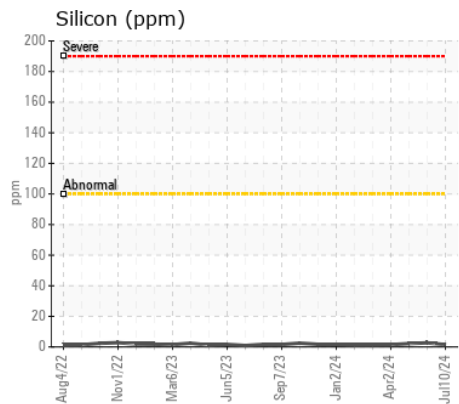
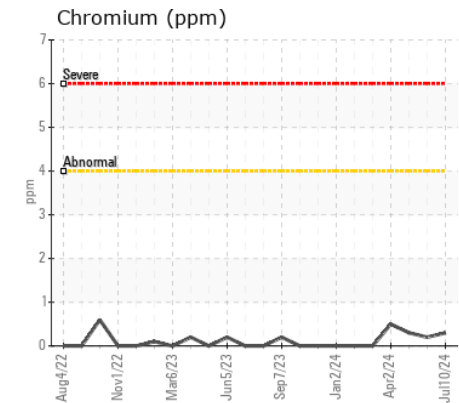
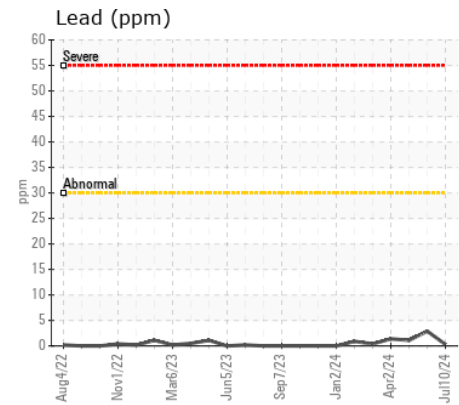
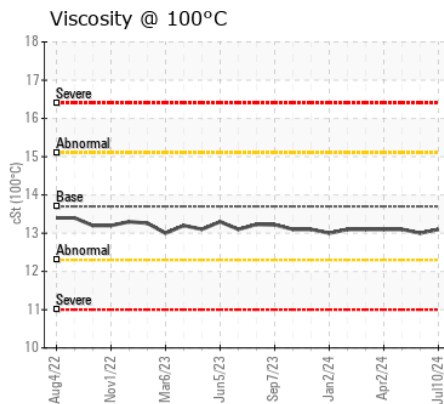
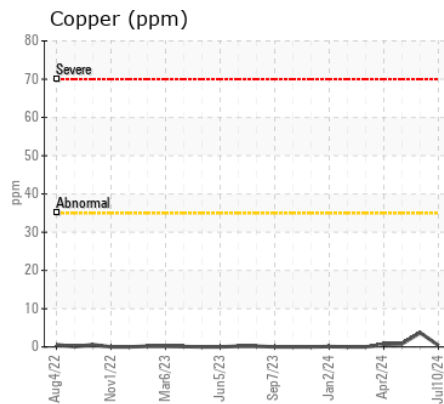
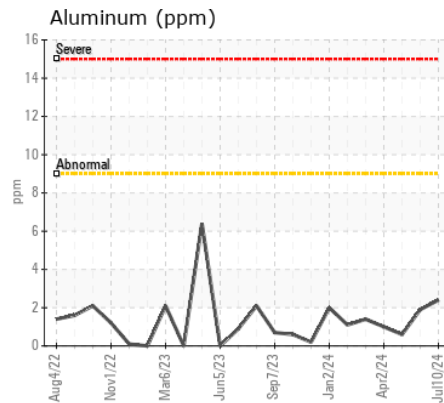
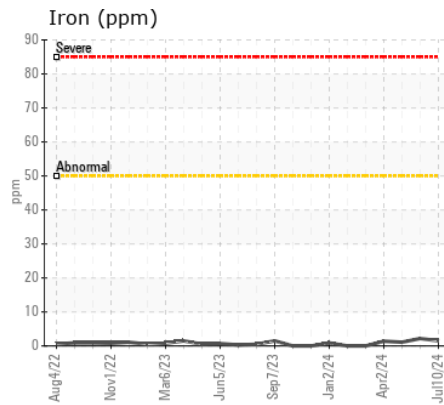
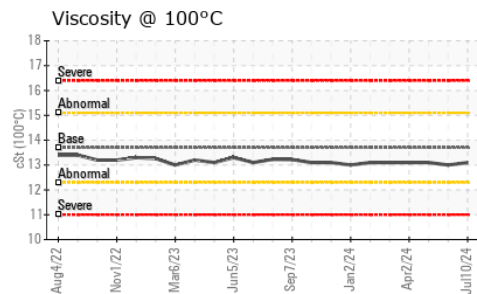
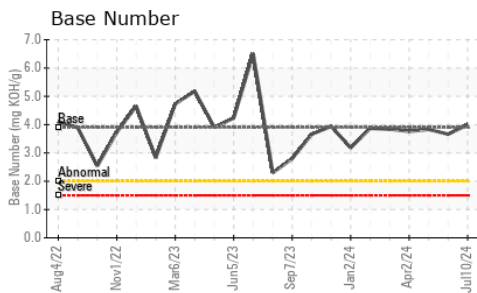
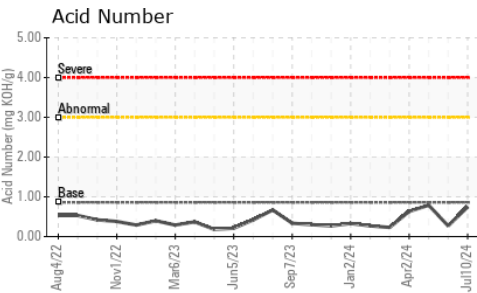
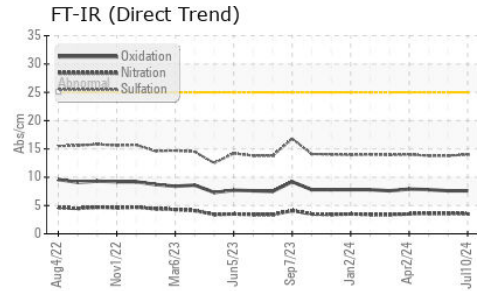
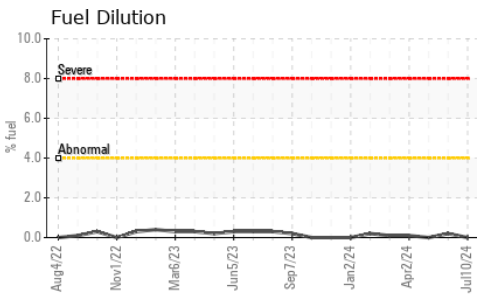
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	2	3	2
Potassium	ppm	ASTM D5185m	>20	1	5	3
Fuel	%	ASTM D3524	>4.0	0.0	0.2	0.0
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>15	3.5	3.6	3.6
Sulfation	Abs/.1mm	*ASTM D7415	>25	14.0	13.8	13.8
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	>20	0	2	0
Boron	ppm	ASTM D5185m	5	<1	0	0
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m	2	<1	3	2
Manganese	ppm	ASTM D5185m	1	0	2	<1
Magnesium	ppm	ASTM D5185m	5	7	8	8
Calcium	ppm	ASTM D5185m	1220	1234	1268	1289
Phosphorus	ppm	ASTM D5185m	298	267	279	286
Zinc	ppm	ASTM D5185m	350	340	343	344
Sulfur	ppm	ASTM D5185m	1995	2223	2653	2588
Oxidation	Abs/.1mm	*ASTM D7414	>20	7.6	7.6	7.8
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	0.745	0.27	0.789
Base Number (BN)	mg KOH/g	ASTM D2896	3.9	4.00	3.66	3.83
Visc @ 100°C	cSt	ASTM D445	13.7	13.1	13.0	13.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0117215 **Received** : 16 Jul 2024
Lab Number : 06238558 **Tested** : 17 Jul 2024
Unique Number : 11127392 **Diagnosed** : 17 Jul 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

ENERVEST OPERATING - HURRICANE
 2830 LAUREL BRANCH ROAD
 VANSANT, VA
 US 24656
 Contact: Service Manager

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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F: