

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
WEST BAY
Machine Id
CATERPILLAR 1017 (S/N F-17433)
Component
Natural Gas Engine
Fluid
PETRO CANADA SENTRON LD SYNTHETIC BLEND (100 GAL)



DIAGNOSIS

Recommendation

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

Wear

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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0120453	---	---
Sample Date	Client Info	13 Mar 2024	---	---
Machine Age	hrs	Client Info	86852	---
Oil Age	hrs	Client Info	1440	---
Oil Changed	Client Info	Changed	---	---
Sample Status		NORMAL	---	---

CONTAMINATION

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

WEAR METALS

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

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	2	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	0	<1	---
Manganese	ppm	ASTM D5185m	0	0	---
Magnesium	ppm	ASTM D5185m	3	6	---
Calcium	ppm	ASTM D5185m	1402	1296	---
Phosphorus	ppm	ASTM D5185m	246	291	---
Zinc	ppm	ASTM D5185m	305	317	---
Sulfur	ppm	ASTM D5185m	2310	2447	---

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>+100	3	---
Sodium	ppm	ASTM D5185m		1	---
Potassium	ppm	ASTM D5185m	>20	0	---
Fuel	%	ASTM D3524	>4.0	0.2	---

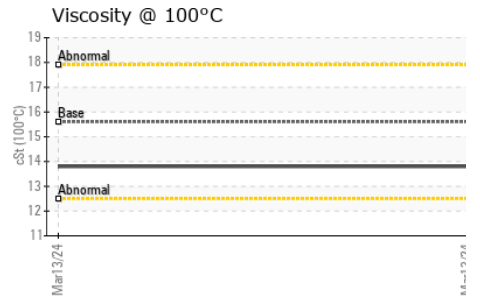
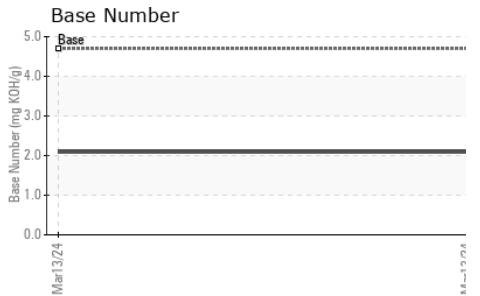
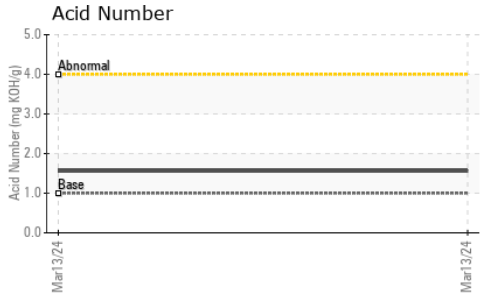
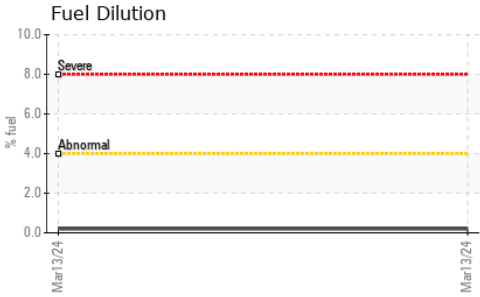
INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		0	---
Nitration	Abs/cm	*ASTM D7624	>20	7.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	---

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	1.56	---
Base Number (BN)	mg KOH/g	ASTM D2896	4.7	2.09	---

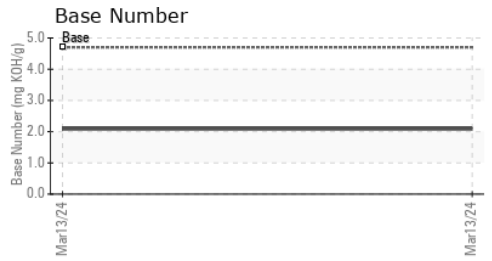
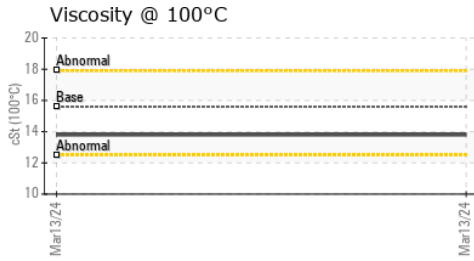
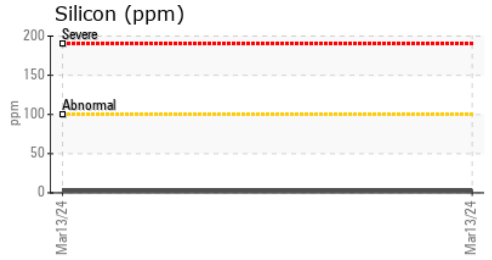
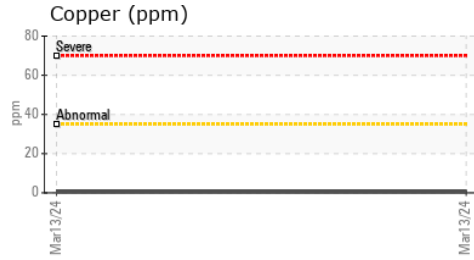
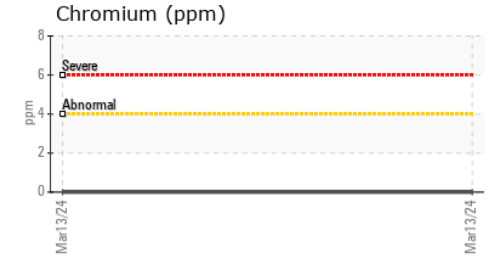
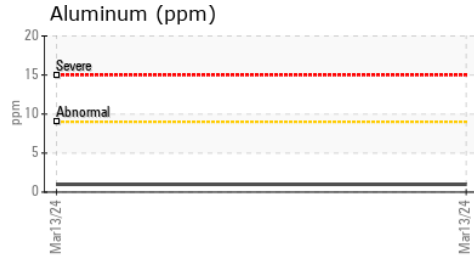
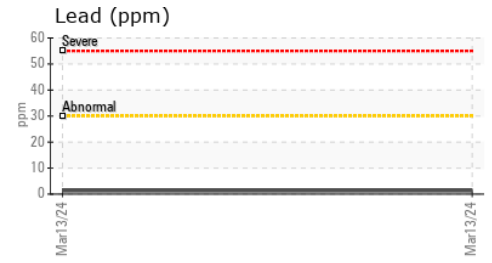
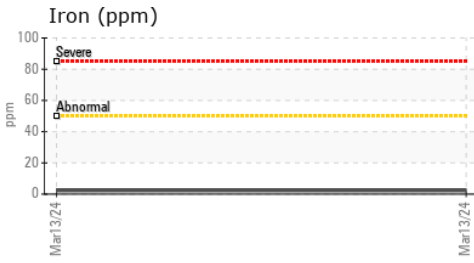
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.6	13.8	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0120453 **Received** : 18 Mar 2024
Lab Number : 06121025 **Tested** : 20 Mar 2024
Unique Number : 10929858 **Diagnosed** : 20 Mar 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

CORRECT COMPRESSION
 11903 CHIPPEWA HWY
 BEAR LAKE, MI
 US 49614
 Contact: TONY MERRILL
 tony@correctcompression.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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F: