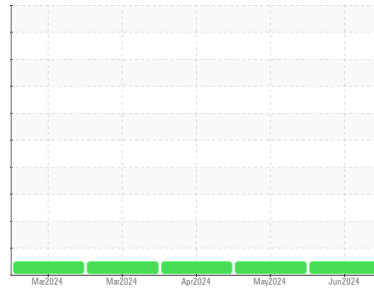


OIL ANALYSIS REPORT



Area
WEST BAY
Machine Id
CATERPILLAR 4227 (S/N F-10969)
Component
Natural Gas Engine
Fluid
PETRO CANADA SENTRON LD SYNTHETIC BLEND (100 GAL)

Sample Rating Trend



NORMAL



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		PCA0127279	PCA0120465	PCA0120456
Sample Date	Client Info		14 Jun 2024	21 May 2024	24 Apr 2024
Machine Age	hrs	Client Info	33210	33210	33210
Oil Age	hrs	Client Info	33210	33210	33210
Oil Changed	Client Info		N/A	N/A	Not Changd
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

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

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	2	0
Barium	ppm	ASTM D5185m 0	0	<1	<1
Molybdenum	ppm	ASTM D5185m 0	<1	3	1
Manganese	ppm	ASTM D5185m 0	<1	<1	<1
Magnesium	ppm	ASTM D5185m 3	10	24	8
Calcium	ppm	ASTM D5185m 1402	1662	1419	1325
Phosphorus	ppm	ASTM D5185m 246	304	279	286
Zinc	ppm	ASTM D5185m 305	377	364	336
Sulfur	ppm	ASTM D5185m 2310	3053	2716	3130

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	2	4	4
Sodium	ppm	ASTM D5185m	2	2	<1
Potassium	ppm	ASTM D5185m >20	2	2	2
Fuel	%	ASTM D3524 >4.0	0.1	0.2	0.1

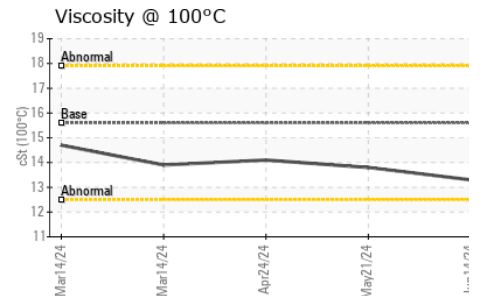
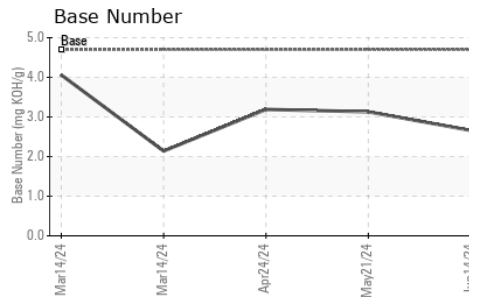
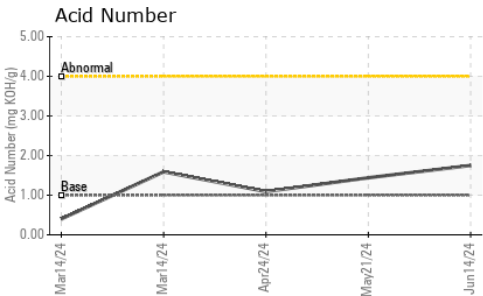
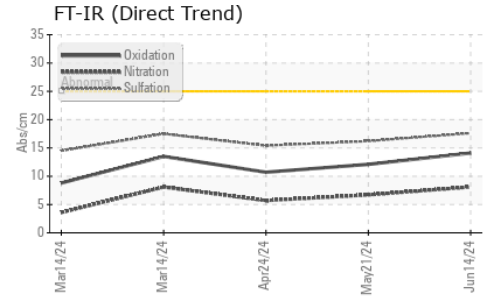
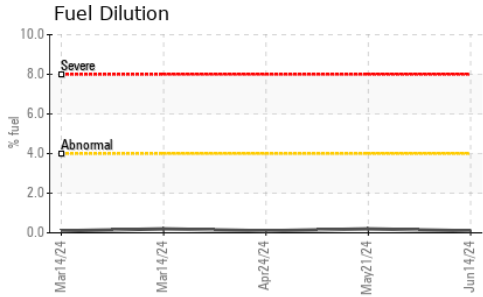
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0	0
Nitration	Abs/cm	*ASTM D7624 >20	8.1	6.7	5.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	17.6	16.2	15.4

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	14.1	12.1	10.7
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	1.75	1.44	1.09
Base Number (BN)	mg KOH/g	ASTM D2896 4.7	2.66	3.13	3.19

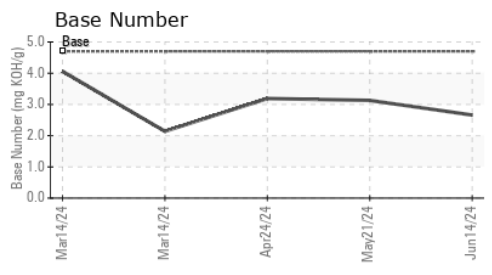
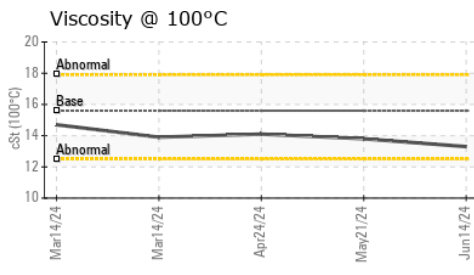
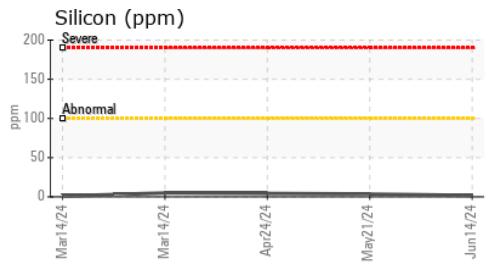
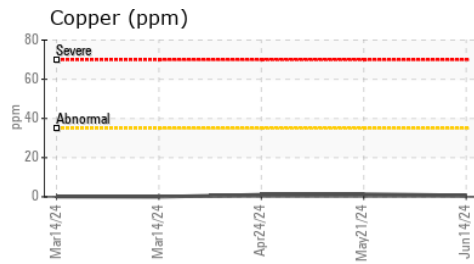
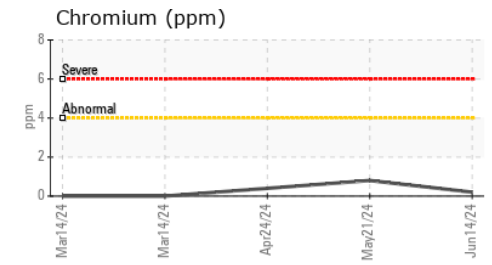
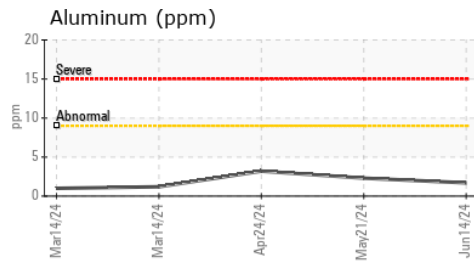
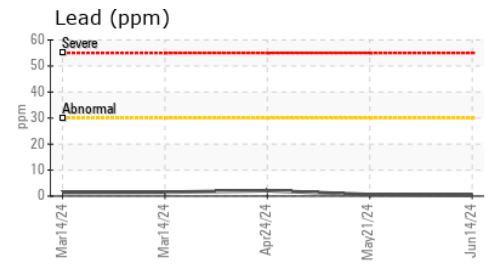
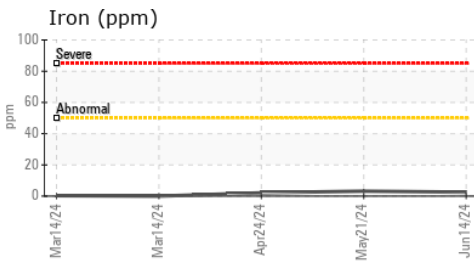
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
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	15.6	13.3	13.8	14.1

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0127279 **Received** : 25 Jun 2024
Lab Number : 06220420 **Tested** : 27 Jun 2024
Unique Number : 11098617 **Diagnosed** : 27 Jun 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)