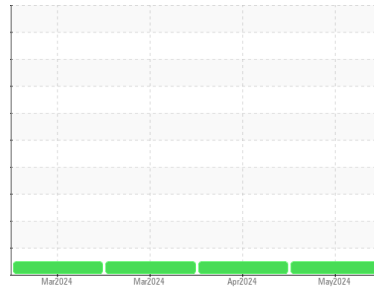


# OIL ANALYSIS REPORT



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		<b>PCA0120465</b>	PCA0120456	PCA0120454
Sample Date	Client Info		<b>21 May 2024</b>	24 Apr 2024	14 Mar 2024
Machine Age	hrs	Client Info	<b>33210</b>	33210	33210
Oil Age	hrs	Client Info	<b>33210</b>	33210	2160
Oil Changed		Client Info	<b>N/A</b>	Not Changd	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>3</b>	2	<1
Chromium	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m >3	<b>1</b>	<1	0
Aluminum	ppm	ASTM D5185m >9	<b>2</b>	3	1
Lead	ppm	ASTM D5185m >30	<b>&lt;1</b>	2	1
Copper	ppm	ASTM D5185m >35	<b>1</b>	1	<1
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	2	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>2</b>	0	1
Barium	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185m 0	<b>3</b>	1	<1
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m 3	<b>24</b>	8	6
Calcium	ppm	ASTM D5185m 1402	<b>1419</b>	1325	1353
Phosphorus	ppm	ASTM D5185m 246	<b>279</b>	286	282
Zinc	ppm	ASTM D5185m 305	<b>364</b>	336	342
Sulfur	ppm	ASTM D5185m 2310	<b>2716</b>	3130	2545

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>4</b>	4	<1
Sodium	ppm	ASTM D5185m	<b>2</b>	<1	1
Potassium	ppm	ASTM D5185m >20	<b>2</b>	2	0
Fuel	%	ASTM D3524 >4.0	<b>0.2</b>	0.1	0.2

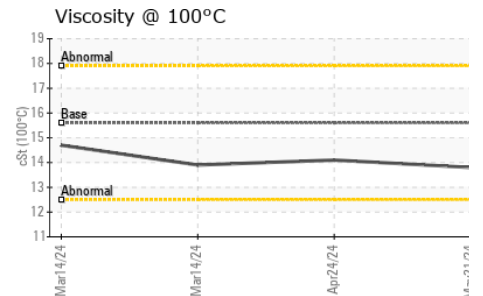
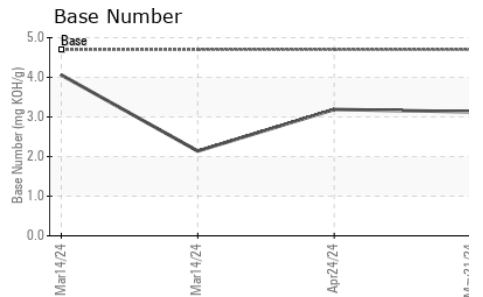
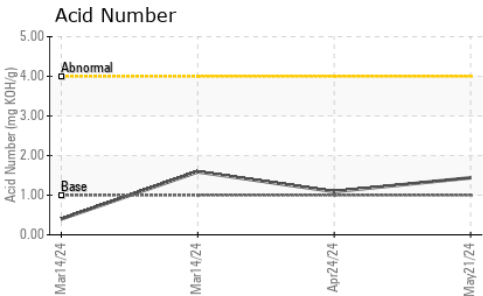
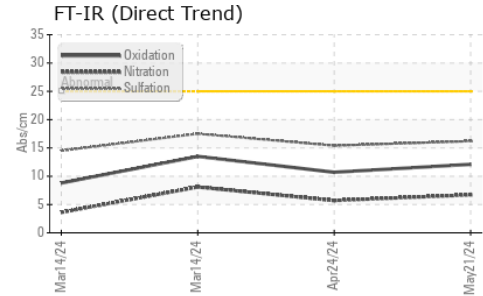
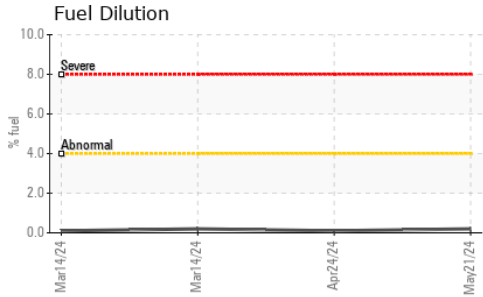
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624 >20	<b>6.7</b>	5.7	8.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>16.2</b>	15.4	17.5

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>12.1</b>	10.7	13.5
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>1.44</b>	1.09	1.59
Base Number (BN)	mg KOH/g	ASTM D2896 4.7	<b>3.13</b>	3.19	2.14

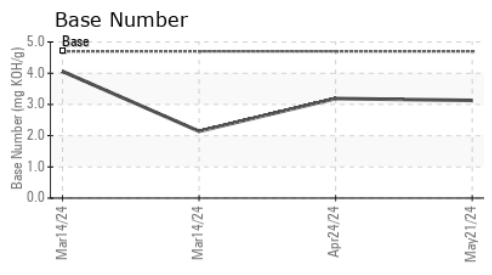
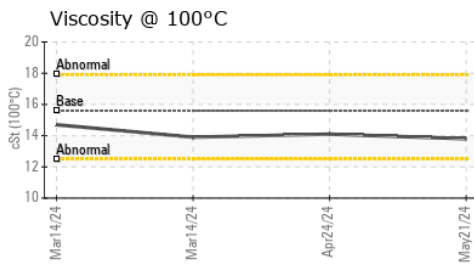
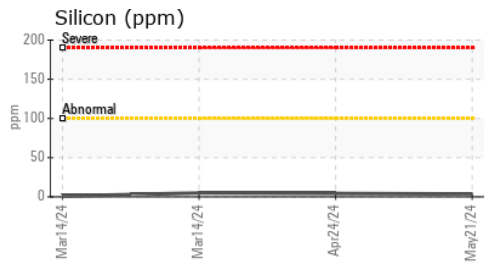
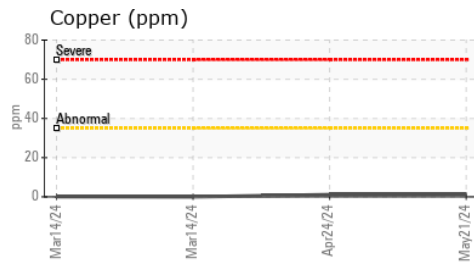
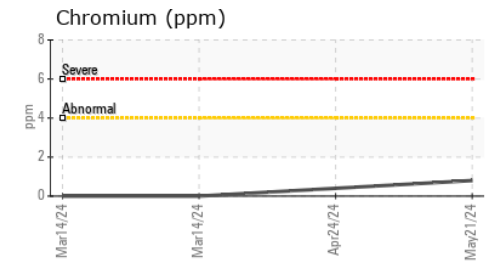
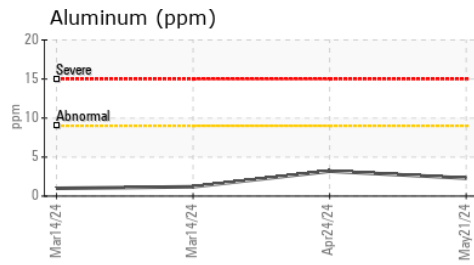
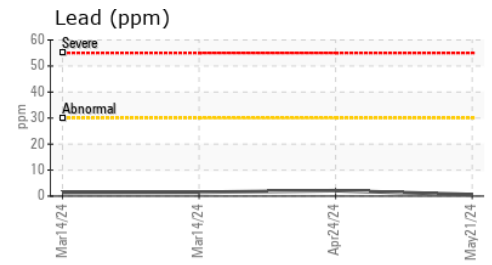
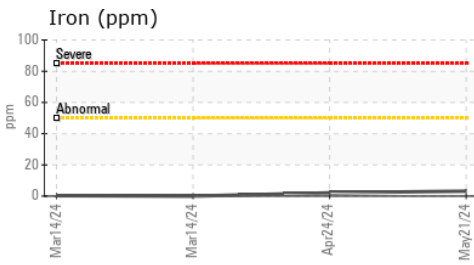
# OIL ANALYSIS REPORT



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	<b>13.8</b>	14.1	13.9

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0120465 **Received** : 24 May 2024  
**Lab Number** : **06191194** **Tested** : 30 May 2024  
**Unique Number** : 11047946 **Diagnosed** : 30 May 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)