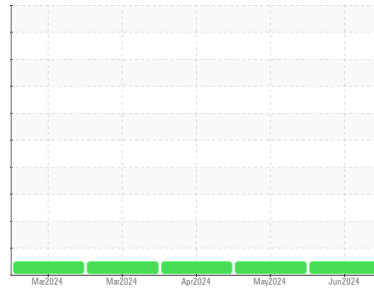


OIL ANALYSIS REPORT



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

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation

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 | | PCA0127280 | PCA0120476 | PCA0120457 |
| Sample Date | Client Info | | 14 Jun 2024 | 21 May 2024 | 24 Apr 2024 |
| Machine Age | hrs | Client Info | 0 | 86852 | 86852 |
| Oil Age | hrs | Client Info | 0 | 86852 | 86852 |
| 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 | 21 | 24 | 4 |
| Chromium | ppm | ASTM D5185m >4 | 1 | 2 | <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 | 3 | 3 |
| Lead | ppm | ASTM D5185m >30 | 2 | 2 | 2 |
| Copper | ppm | ASTM D5185m >35 | 8 | 7 | 2 |
| 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 | <1 | 0 |
| Barium | ppm | ASTM D5185m 0 | 0 | <1 | <1 |
| Molybdenum | ppm | ASTM D5185m 0 | 2 | 2 | 2 |
| Manganese | ppm | ASTM D5185m 0 | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m 3 | 38 | 15 | 11 |
| Calcium | ppm | ASTM D5185m 1402 | 1702 | 1435 | 1338 |
| Phosphorus | ppm | ASTM D5185m 246 | 330 | 289 | 287 |
| Zinc | ppm | ASTM D5185m 305 | 416 | 378 | 337 |
| Sulfur | ppm | ASTM D5185m 2310 | 3290 | 2884 | 3270 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------------|------------|----------|----------|
| Silicon | ppm | ASTM D5185m >+100 | 3 | 4 | 11 |
| Sodium | ppm | ASTM D5185m | 7 | 9 | 0 |
| Potassium | ppm | ASTM D5185m >20 | 3 | 4 | 1 |
| Fuel | % | ASTM D3524 >4.0 | 0.0 | 0.2 | 0.0 |

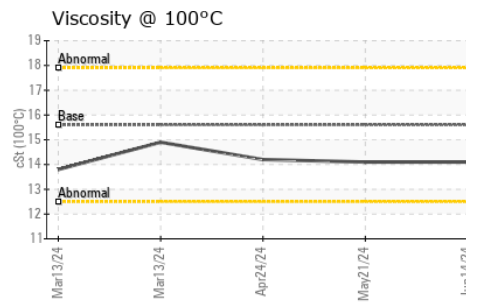
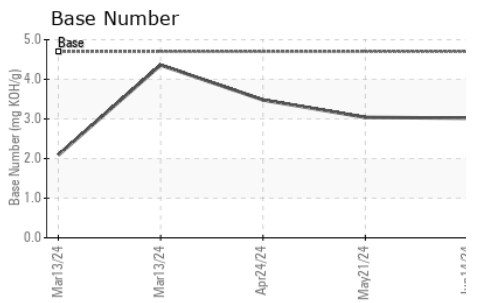
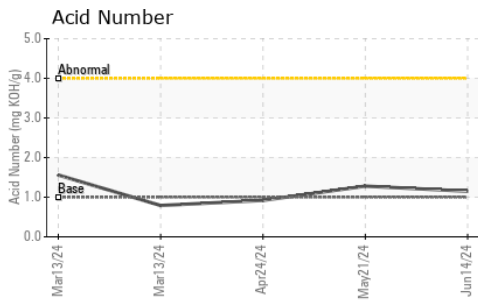
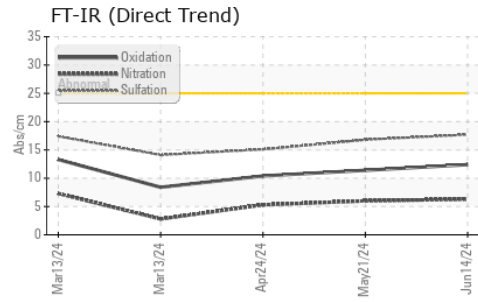
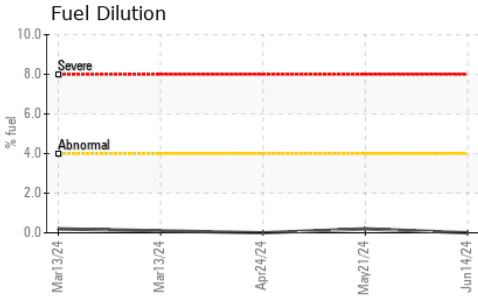
INFRA-RED

| | method | limit/base | current | history1 | history2 |
|-----------|----------|-----------------|-------------|----------|----------|
| Soot % | % | *ASTM D7844 | 0 | 0 | 0 |
| Nitration | Abs/cm | *ASTM D7624 >20 | 6.3 | 6.0 | 5.3 |
| Sulfation | Abs/.1mm | *ASTM D7415 >30 | 17.7 | 16.8 | 15.1 |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|-----------------|-------------|----------|----------|
| Oxidation | Abs/.1mm | *ASTM D7414 >25 | 12.4 | 11.4 | 10.4 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 1.0 | 1.15 | 1.28 | 0.92 |
| Base Number (BN) | mg KOH/g | ASTM D2896 4.7 | 3.02 | 3.04 | 3.48 |

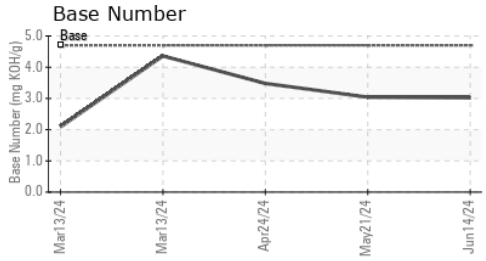
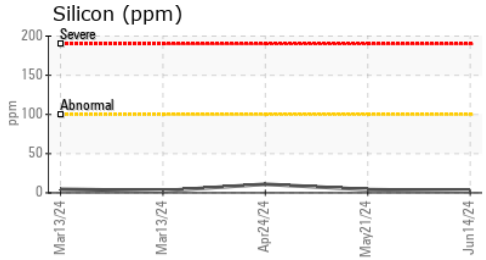
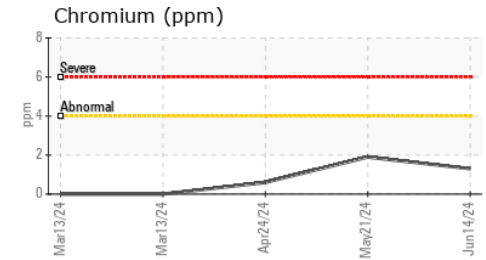
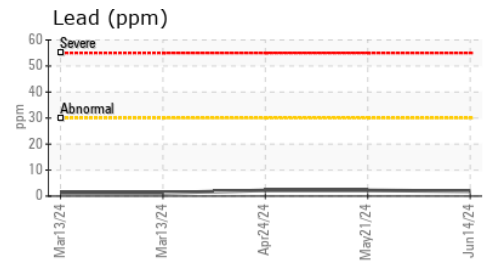
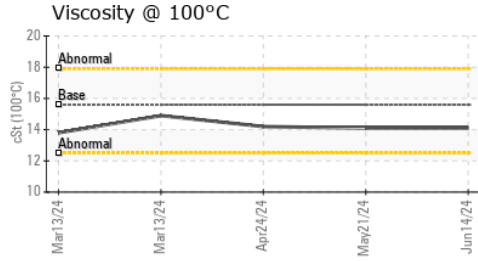
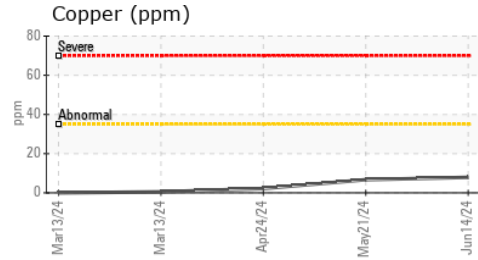
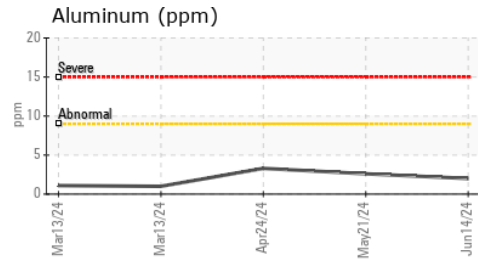
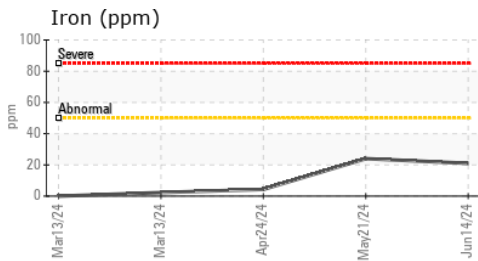
OIL ANALYSIS REPORT



| 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 | 14.1 | 14.1 | 14.2 |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0127280
Lab Number : 06220419
Unique Number : 11098616
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

Received : 25 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 27 Jun 2024 - Angela Borella

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)

CORRECT COMPRESSION
 11903 CHIPPEWA HWY
 BEAR LAKE, MI
 US 49614

Contact: TONY MERRILL
 tony@correctcompression.com

T:
 F: