

# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**DAVIS**  
Component  
**Natural Gas Engine**  
Fluid  
**PETRO CANADA SENTRON LA 2000 (--- GAL)**



## DIAGNOSIS

### Recommendation

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

### Wear

Metal levels are typical for a components first oil change.

### 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>PCA0112203</b>  | ---      | ---      |
| Sample Date   | Client Info |             | <b>28 Nov 2023</b> | ---      | ---      |
| Machine Age   | hrs         | Client Info | <b>783</b>         | ---      | ---      |
| Oil Age       | hrs         | Client Info | <b>783</b>         | ---      | ---      |
| Oil Changed   | Client Info |             | <b>Not Chngd</b>   | ---      | ---      |
| Sample Status |             |             | <b>NORMAL</b>      | ---      | ---      |

## CONTAMINATION

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

## WEAR METALS

|          | method | limit/base      | current      | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron     | ppm    | ASTM D5185m >50 | <b>8</b>     | ---      | ---      |
| Chromium | ppm    | ASTM D5185m >4  | <b>0</b>     | ---      | ---      |
| Nickel   | ppm    | ASTM D5185m >2  | <b>0</b>     | ---      | ---      |
| Titanium | ppm    | ASTM D5185m     | <b>0</b>     | ---      | ---      |
| Silver   | ppm    | ASTM D5185m >3  | <b>0</b>     | ---      | ---      |
| Aluminum | ppm    | ASTM D5185m >9  | <b>2</b>     | ---      | ---      |
| Lead     | ppm    | ASTM D5185m >30 | <b>&lt;1</b> | ---      | ---      |
| Copper   | ppm    | ASTM D5185m >35 | <b>14</b>    | ---      | ---      |
| Tin      | ppm    | ASTM D5185m >4  | <b>0</b>     | ---      | ---      |
| Vanadium | ppm    | ASTM D5185m     | <b>0</b>     | ---      | ---      |
| Cadmium  | ppm    | ASTM D5185m     | <b>0</b>     | ---      | ---      |

## ADDITIVES

|            | method | limit/base       | current     | history1 | history2 |
|------------|--------|------------------|-------------|----------|----------|
| Boron      | ppm    | ASTM D5185m 2    | <b>0</b>    | ---      | ---      |
| Barium     | ppm    | ASTM D5185m 1    | <b>0</b>    | ---      | ---      |
| Molybdenum | ppm    | ASTM D5185m 1    | <b>0</b>    | ---      | ---      |
| Manganese  | ppm    | ASTM D5185m 5    | <b>0</b>    | ---      | ---      |
| Magnesium  | ppm    | ASTM D5185m 1    | <b>2</b>    | ---      | ---      |
| Calcium    | ppm    | ASTM D5185m 1237 | <b>1415</b> | ---      | ---      |
| Phosphorus | ppm    | ASTM D5185m 270  | <b>292</b>  | ---      | ---      |
| Zinc       | ppm    | ASTM D5185m 330  | <b>356</b>  | ---      | ---      |
| Sulfur     | ppm    | ASTM D5185m 2670 | <b>3791</b> | ---      | ---      |

## CONTAMINANTS

|           | method | limit/base        | current    | history1 | history2 |
|-----------|--------|-------------------|------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >+100 | <b>2</b>   | ---      | ---      |
| Sodium    | ppm    | ASTM D5185m       | <b>3</b>   | ---      | ---      |
| Potassium | ppm    | ASTM D5185m >20   | <b>2</b>   | ---      | ---      |
| Fuel      | %      | ASTM D3524 >4.0   | <b>0.3</b> | ---      | ---      |

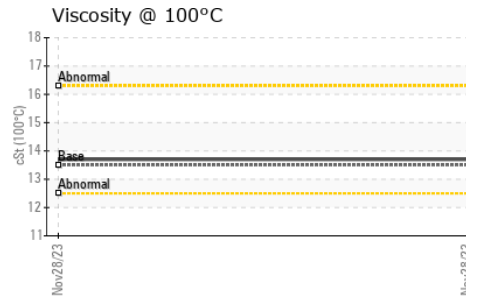
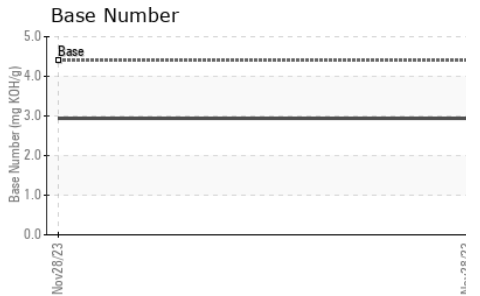
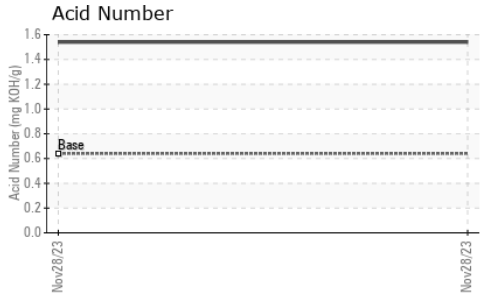
## INFRA-RED

|           | method   | limit/base      | current     | history1 | history2 |
|-----------|----------|-----------------|-------------|----------|----------|
| Soot %    | %        | *ASTM D7844     | <b>0</b>    | ---      | ---      |
| Nitration | Abs/cm   | *ASTM D7624 >20 | <b>7.0</b>  | ---      | ---      |
| Sulfation | Abs/.1mm | *ASTM D7415 >30 | <b>17.3</b> | ---      | ---      |

## FLUID DEGRADATION

|                  | method   | limit/base      | current     | history1 | history2 |
|------------------|----------|-----------------|-------------|----------|----------|
| Oxidation        | Abs/.1mm | *ASTM D7414 >25 | <b>11.8</b> | ---      | ---      |
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.64 | <b>1.54</b> | ---      | ---      |
| Base Number (BN) | mg KOH/g | ASTM D2896 4.4  | <b>2.94</b> | ---      | ---      |

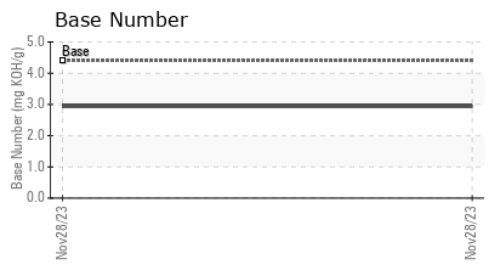
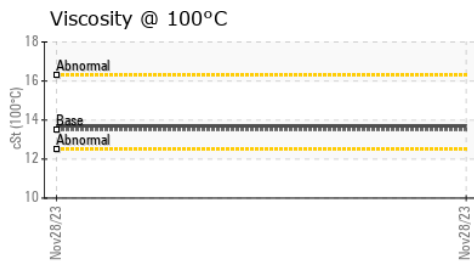
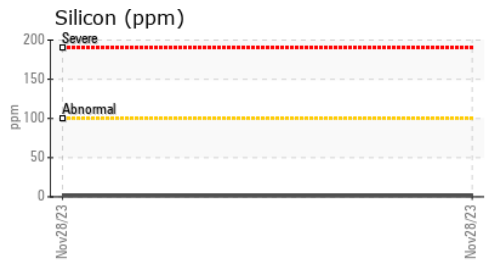
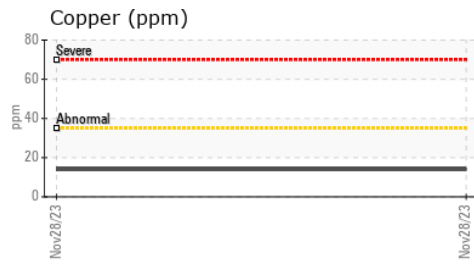
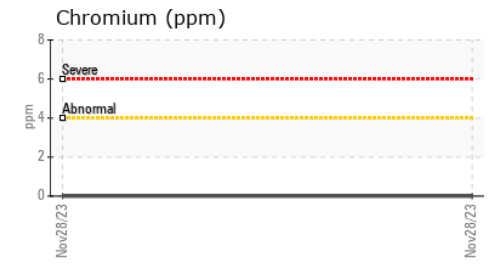
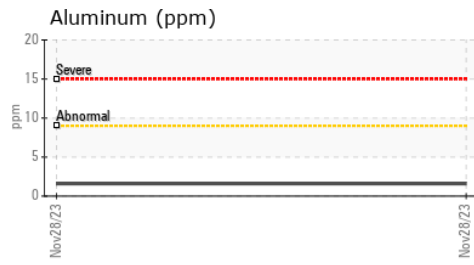
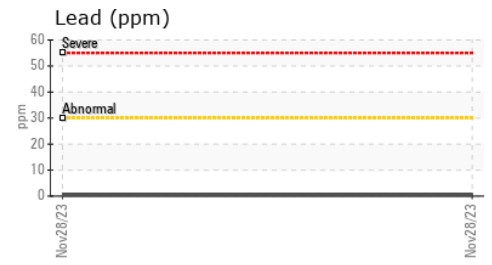
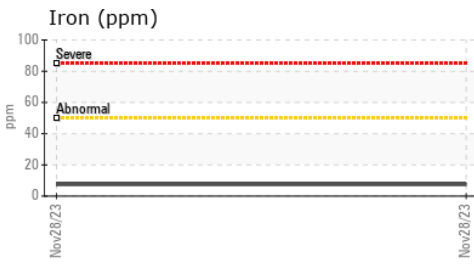
# OIL ANALYSIS REPORT



| 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  | 13.5    | <b>13.7</b> | ---      |

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0112203      **Received** : 18 Mar 2024  
**Lab Number** : **06121031**      **Tested** : 20 Mar 2024  
**Unique Number** : 10929864      **Diagnosed** : 20 Mar 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: FuelDilution, PercentFuel )

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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)