



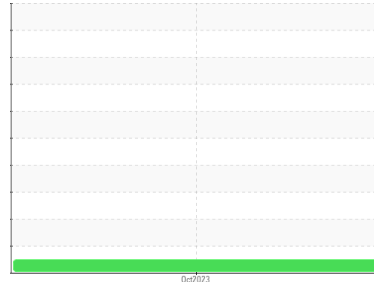
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**CATERPILLAR R1600H SCP222**  
 Component  
**Front Left Planetary**  
 Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info |             | <b>WC0865524</b>   | ---      | ---      |
| Sample Date   | Client Info |             | <b>12 Oct 2023</b> | ---      | ---      |
| Machine Age   | hrs         | Client Info | <b>260</b>         | ---      | ---      |
| Oil Age       | hrs         | Client Info | <b>260</b>         | ---      | ---      |
| Oil Changed   | Client Info |             | <b>Not Chngd</b>   | ---      | ---      |
| Sample Status |             |             | <b>NORMAL</b>      | ---      | ---      |

## WEAR METALS

|           | method | limit/base         | current      | history1 | history2 |
|-----------|--------|--------------------|--------------|----------|----------|
| Iron      | ppm    | ASTM D5185(m) >500 | <b>14</b>    | ---      | ---      |
| Chromium  | ppm    | ASTM D5185(m) >10  | <b>0</b>     | ---      | ---      |
| Nickel    | ppm    | ASTM D5185(m) >10  | <b>&lt;1</b> | ---      | ---      |
| Titanium  | ppm    | ASTM D5185(m)      | <b>0</b>     | ---      | ---      |
| Silver    | ppm    | ASTM D5185(m)      | <b>&lt;1</b> | ---      | ---      |
| Aluminum  | ppm    | ASTM D5185(m) >25  | <b>2</b>     | ---      | ---      |
| Lead      | ppm    | ASTM D5185(m) >25  | <b>5</b>     | ---      | ---      |
| Copper    | ppm    | ASTM D5185(m) >75  | <b>59</b>    | ---      | ---      |
| Tin       | ppm    | ASTM D5185(m) >10  | <b>1</b>     | ---      | ---      |
| Antimony  | ppm    | ASTM D5185(m) >5   | <b>0</b>     | ---      | ---      |
| Vanadium  | ppm    | ASTM D5185(m)      | <b>0</b>     | ---      | ---      |
| Beryllium | ppm    | ASTM D5185(m)      | <b>0</b>     | ---      | ---      |
| Cadmium   | ppm    | ASTM D5185(m)      | <b>0</b>     | ---      | ---      |

## ADDITIVES

|            | method | limit/base         | current      | history1 | history2 |
|------------|--------|--------------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185(m) 2    | <b>7</b>     | ---      | ---      |
| Barium     | ppm    | ASTM D5185(m) 0    | <b>5</b>     | ---      | ---      |
| Molybdenum | ppm    | ASTM D5185(m) 0    | <b>0</b>     | ---      | ---      |
| Manganese  | ppm    | ASTM D5185(m) 0    | <b>0</b>     | ---      | ---      |
| Magnesium  | ppm    | ASTM D5185(m) 9    | <b>11</b>    | ---      | ---      |
| Calcium    | ppm    | ASTM D5185(m) 3114 | <b>3331</b>  | ---      | ---      |
| Phosphorus | ppm    | ASTM D5185(m) 1099 | <b>991</b>   | ---      | ---      |
| Zinc       | ppm    | ASTM D5185(m) 1245 | <b>1157</b>  | ---      | ---      |
| Sulfur     | ppm    | ASTM D5185(m) 7086 | <b>8130</b>  | ---      | ---      |
| Lithium    | ppm    | ASTM D5185(m)      | <b>&lt;1</b> | ---      | ---      |

## CONTAMINANTS

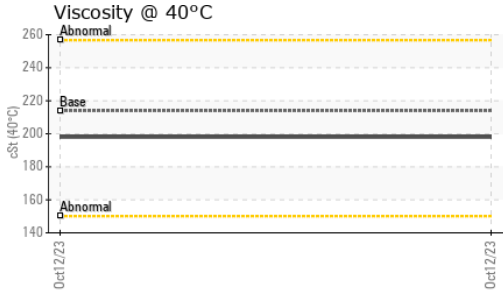
|           | method | limit/base        | current      | history1 | history2 |
|-----------|--------|-------------------|--------------|----------|----------|
| Silicon   | ppm    | ASTM D5185(m) >75 | <b>10</b>    | ---      | ---      |
| Sodium    | ppm    | ASTM D5185(m)     | <b>3</b>     | ---      | ---      |
| Potassium | ppm    | ASTM D5185(m) >20 | <b>&lt;1</b> | ---      | ---      |

## VISUAL

|                  | method | limit/base | current | history1     | history2 |
|------------------|--------|------------|---------|--------------|----------|
| White Metal      | scalar | Visual*    | NONE    | <b>NONE</b>  | ---      |
| Yellow Metal     | scalar | Visual*    | NONE    | <b>NONE</b>  | ---      |
| Precipitate      | scalar | Visual*    | NONE    | <b>NONE</b>  | ---      |
| Silt             | scalar | Visual*    | NONE    | <b>NONE</b>  | ---      |
| Debris           | scalar | Visual*    | NONE    | <b>VLITE</b> | ---      |
| Sand/Dirt        | scalar | Visual*    | NONE    | <b>NONE</b>  | ---      |
| Appearance       | scalar | Visual*    | NORML   | <b>NORML</b> | ---      |
| Odor             | scalar | Visual*    | NORML   | <b>NORML</b> | ---      |
| Emulsified Water | scalar | Visual*    | >0.2    | <b>NEG</b>   | ---      |
| Free Water       | scalar | Visual*    |         | <b>NEG</b>   | ---      |



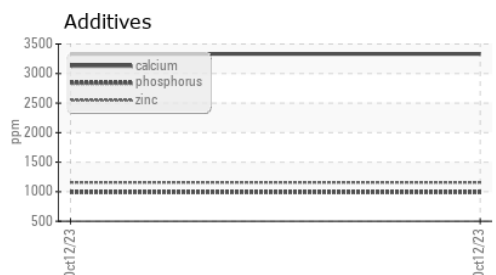
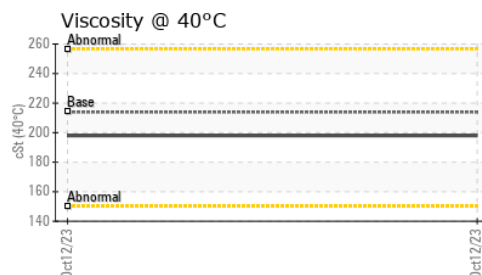
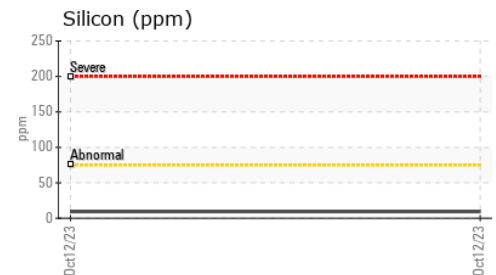
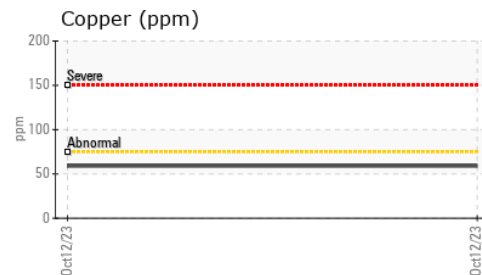
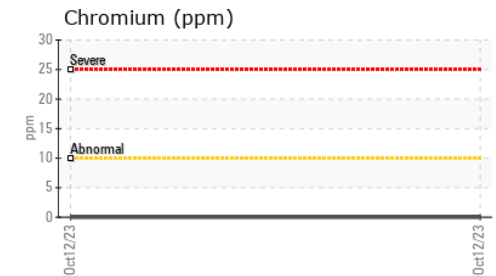
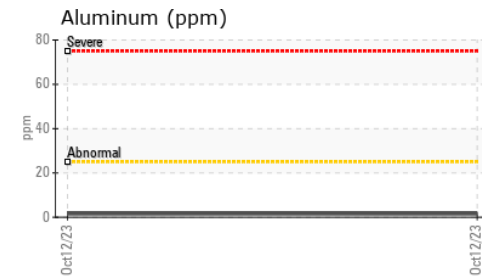
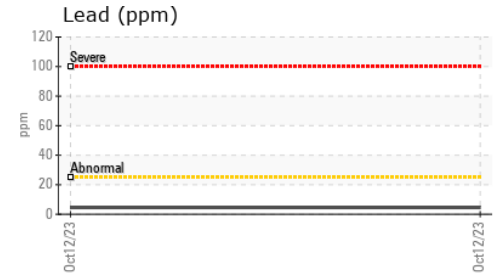
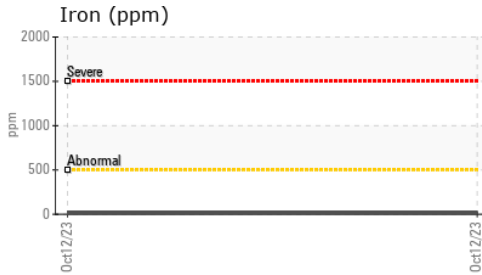
# OIL ANALYSIS REPORT



| FLUID PROPERTIES |     | method        | limit/base | current    | history1 | history2 |
|------------------|-----|---------------|------------|------------|----------|----------|
| Visc @ 40°C      | cSt | ASTM D7279(m) | 213.9      | <b>198</b> | ---      | ---      |

| SAMPLE IMAGES |  | method | limit/base | current | history1 | history2 |
|---------------|--|--------|------------|---------|----------|----------|
| Color         |  |        |            |         | no image | no image |
| Bottom        |  |        |            |         | no image | no image |

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0865524  
**Lab Number** : 02592198  
**Unique Number** : 5669277  
**Test Package** : MOB 1

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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.