

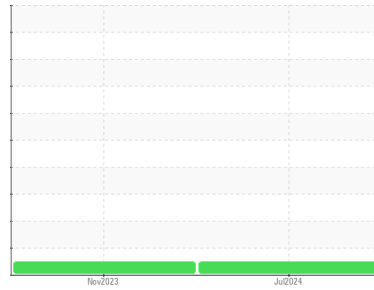


# OIL ANALYSIS REPORT



Machine Id  
**CATERPILLAR 1300G SCP217**  
 Component  
**Front Left Planetary**  
 Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**

### Sample Rating Trend



**NORMAL**



### 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>WC0940459</b>   | WC0879699   | ---      |
| Sample Date   | Client Info |             | <b>05 Jul 2024</b> | 18 Nov 2023 | ---      |
| Machine Age   | hrs         | Client Info | <b>4637</b>        | 2537        | ---      |
| Oil Age       | hrs         | Client Info | <b>0</b>           | 0           | ---      |
| Oil Changed   | Client Info |             | <b>Not Chngd</b>   | Not Chngd   | ---      |
| Sample Status |             |             | <b>NORMAL</b>      | NORMAL      | ---      |

### CONTAMINATION

|       | method    | limit/base | current    | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.2       | <b>NEG</b> | NEG      | ---      |

### WEAR METALS

|           | method | limit/base    | current | history1     | history2 |     |
|-----------|--------|---------------|---------|--------------|----------|-----|
| Iron      | ppm    | ASTM D5185(m) | >500    | <b>25</b>    | 120      | --- |
| Chromium  | ppm    | ASTM D5185(m) | >10     | <b>&lt;1</b> | 1        | --- |
| Nickel    | ppm    | ASTM D5185(m) | >10     | <b>&lt;1</b> | <1       | --- |
| Titanium  | ppm    | ASTM D5185(m) |         | <b>&lt;1</b> | 0        | --- |
| Silver    | ppm    | ASTM D5185(m) |         | <b>0</b>     | <1       | --- |
| Aluminum  | ppm    | ASTM D5185(m) | >25     | <b>3</b>     | 7        | --- |
| Lead      | ppm    | ASTM D5185(m) | >25     | <b>0</b>     | 1        | --- |
| Copper    | ppm    | ASTM D5185(m) | >75     | <b>14</b>    | 50       | --- |
| Tin       | ppm    | ASTM D5185(m) | >10     | <b>&lt;1</b> | 3        | --- |
| Antimony  | ppm    | ASTM D5185(m) | >5      | <b>0</b>     | 0        | --- |
| Vanadium  | ppm    | ASTM D5185(m) |         | <b>0</b>     | 0        | --- |
| Beryllium | ppm    | ASTM D5185(m) |         | <b>0</b>     | 0        | --- |
| Cadmium   | ppm    | ASTM D5185(m) |         | <b>0</b>     | 0        | --- |

### ADDITIVES

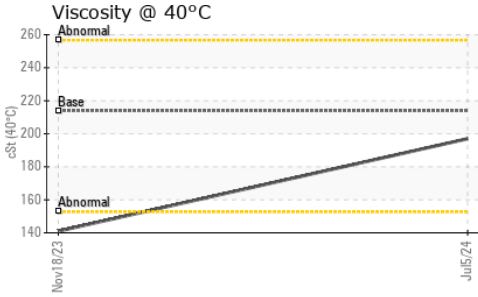
|            | method | limit/base    | current | history1     | history2 |     |
|------------|--------|---------------|---------|--------------|----------|-----|
| Boron      | ppm    | ASTM D5185(m) | 2       | <b>2</b>     | 7        | --- |
| Barium     | ppm    | ASTM D5185(m) | 0       | <b>&lt;1</b> | 2        | --- |
| Molybdenum | ppm    | ASTM D5185(m) | 0       | <b>&lt;1</b> | 8        | --- |
| Manganese  | ppm    | ASTM D5185(m) | 0       | <b>&lt;1</b> | 1        | --- |
| Magnesium  | ppm    | ASTM D5185(m) | 9       | <b>16</b>    | 123      | --- |
| Calcium    | ppm    | ASTM D5185(m) | 3114    | <b>3408</b>  | 2739     | --- |
| Phosphorus | ppm    | ASTM D5185(m) | 1099    | <b>922</b>   | 837      | --- |
| Zinc       | ppm    | ASTM D5185(m) | 1245    | <b>1096</b>  | 985      | --- |
| Sulfur     | ppm    | ASTM D5185(m) | 7086    | <b>11574</b> | 8408     | --- |
| Lithium    | ppm    | ASTM D5185(m) |         | <b>&lt;1</b> | <1       | --- |

### CONTAMINANTS

|           | method | limit/base    | current | history1     | history2 |     |
|-----------|--------|---------------|---------|--------------|----------|-----|
| Silicon   | ppm    | ASTM D5185(m) | >75     | <b>13</b>    | 11       | --- |
| Sodium    | ppm    | ASTM D5185(m) |         | <b>&lt;1</b> | 2        | --- |
| Potassium | ppm    | ASTM D5185(m) | >20     | <b>&lt;1</b> | 0        | --- |



# OIL ANALYSIS REPORT



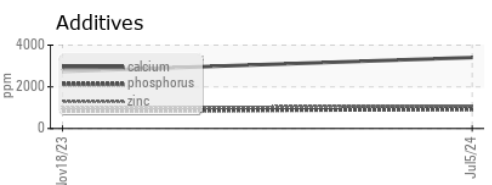
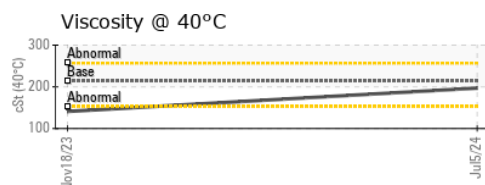
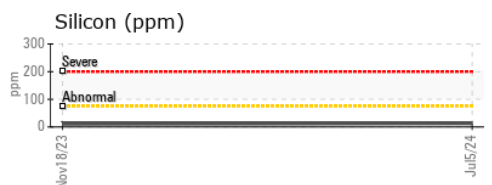
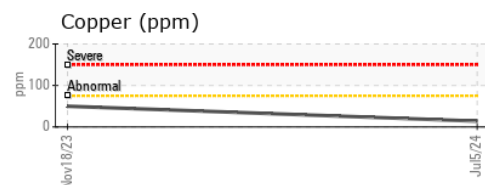
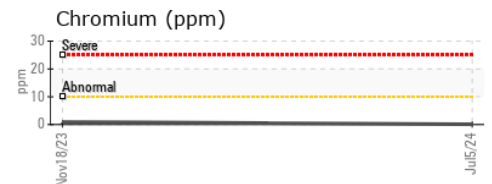
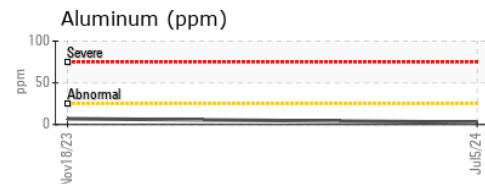
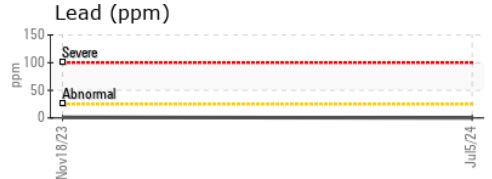
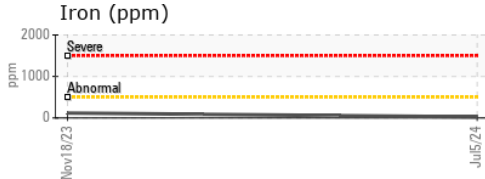
| VISUAL           | method | limit/base | current | history1     | history2 |     |
|------------------|--------|------------|---------|--------------|----------|-----|
| White Metal      | scalar | Visual*    | NONE    | <b>LIGHT</b> | NONE     | --- |
| Yellow Metal     | scalar | Visual*    | NONE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

| FLUID PROPERTIES | method | limit/base    | current | history1   | history2 |     |
|------------------|--------|---------------|---------|------------|----------|-----|
| Visc @ 40°C      | cSt    | ASTM D7279(m) | 213.9   | <b>197</b> | 141      | --- |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|

|        |  |  |  |  |          |
|--------|--|--|--|--|----------|
| Color  |  |  |  |  | no image |
| Bottom |  |  |  |  | no image |

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0940459      **Received** : 10 Jul 2024  
**Lab Number** : **02647124**      **Tested** : 10 Jul 2024  
**Unique Number** : 5812676      **Diagnosed** : 10 Jul 2024 - Wes Davis  
**Test Package** : MOB 1

**Agnico Eagle Canada**  
 1350 Government Rd. W, MACASSA COMPLEX  
 Kirkland Lake, ON  
 CA P2N 3J1  
 Contact: Mitch Lamontagne  
 AEM\_KL\_macassaoilsampleresults@agnicoeagle.com

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.

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