



# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**22BM175**

Component  
**Rear Right Final Drive**

Fluid  
**TEXACO PINNACLE EP 220 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a components first oil change.

### 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>WC0653373</b>   | ---      | ---      |
| Sample Date   | Client Info |             | <b>11 Dec 2023</b> | ---      | ---      |
| Machine Age   | hrs         | Client Info | <b>135</b>         | ---      | ---      |
| Oil Age       | hrs         | Client Info | <b>135</b>         | ---      | ---      |
| Oil Changed   | Client Info |             | <b>Changed</b>     | ---      | ---      |
| Sample Status |             |             | <b>NORMAL</b>      | ---      | ---      |

## CONTAMINATION

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

## WEAR METALS

|           | method | limit/base    | current | history1     | history2 |
|-----------|--------|---------------|---------|--------------|----------|
| Iron      | ppm    | ASTM D5185(m) | >500    | <b>296</b>   | ---      |
| Chromium  | ppm    | ASTM D5185(m) | >10     | <b>4</b>     | ---      |
| Nickel    | ppm    | ASTM D5185(m) | >10     | <b>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>6</b>     | ---      |
| Lead      | ppm    | ASTM D5185(m) | >25     | <b>229</b>   | ---      |
| Copper    | ppm    | ASTM D5185(m) | >50     | <b>10</b>    | ---      |
| Tin       | ppm    | ASTM D5185(m) | >10     | <b>0</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) |         | <b>11</b>    | ---      |
| Barium     | ppm    | ASTM D5185(m) |         | <b>5</b>     | ---      |
| Molybdenum | ppm    | ASTM D5185(m) |         | <b>0</b>     | ---      |
| Manganese  | ppm    | ASTM D5185(m) |         | <b>3</b>     | ---      |
| Magnesium  | ppm    | ASTM D5185(m) |         | <b>4</b>     | ---      |
| Calcium    | ppm    | ASTM D5185(m) |         | <b>20</b>    | ---      |
| Phosphorus | ppm    | ASTM D5185(m) |         | <b>371</b>   | ---      |
| Zinc       | ppm    | ASTM D5185(m) |         | <b>16</b>    | ---      |
| Sulfur     | ppm    | ASTM D5185(m) |         | <b>4676</b>  | ---      |
| Lithium    | ppm    | ASTM D5185(m) |         | <b>&lt;1</b> | ---      |

## CONTAMINANTS

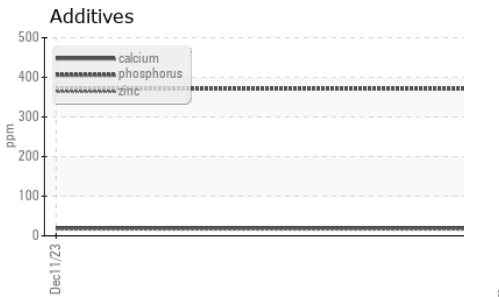
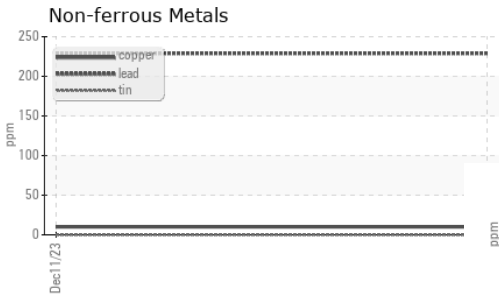
|           | method | limit/base    | current | history1     | history2 |
|-----------|--------|---------------|---------|--------------|----------|
| Silicon   | ppm    | ASTM D5185(m) | >75     | <b>12</b>    | ---      |
| Sodium    | ppm    | ASTM D5185(m) |         | <b>8</b>     | ---      |
| Potassium | ppm    | ASTM D5185(m) | >20     | <b>&lt;1</b> | ---      |

## FLUID DEGRADATION

|                  | method   | limit/base | current | history1    | history2 |
|------------------|----------|------------|---------|-------------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D974* |         | <b>0.65</b> | ---      |



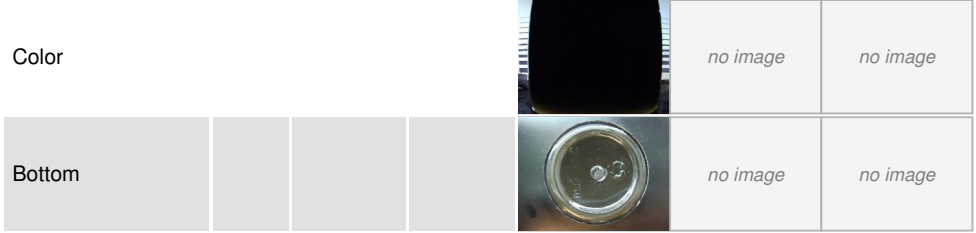
# OIL ANALYSIS REPORT



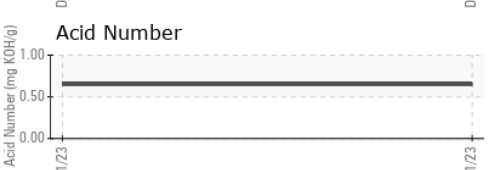
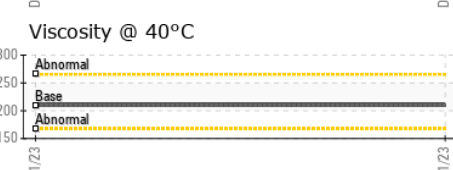
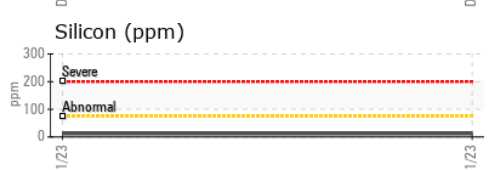
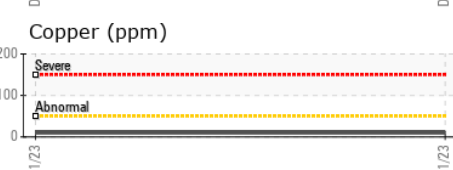
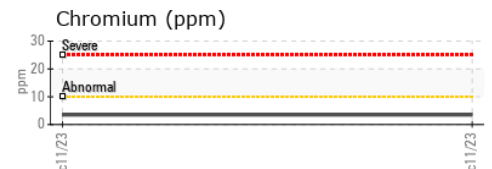
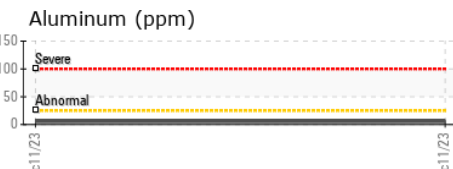
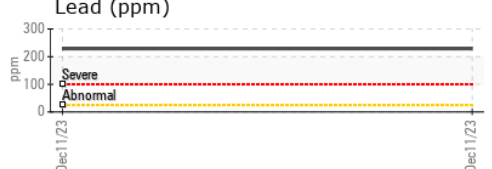
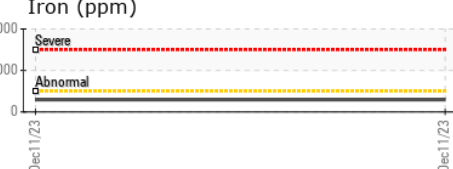
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | Visual*    | NONE    | NONE     | ---      |
| Yellow Metal     | scalar | Visual*    | NONE    | NONE     | ---      |
| 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*    | >0.2    | NEG      | ---      |
| Free Water       | scalar | Visual*    |         | NEG      | ---      |

| FLUID PROPERTIES | method | limit/base    | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D7279(m) | 209     | 210      | ---      |

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



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0653373 **Received** : 13 Dec 2023  
**Lab Number** : 02602914 **Diagnosed** : 14 Dec 2023  
**Unique Number** : 5695999 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: TAN Man )

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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.