

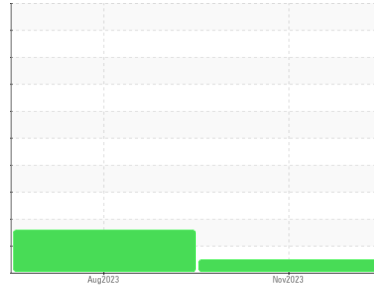


# OIL ANALYSIS REPORT



Area  
**Action Newark**  
 Machine Id  
**CATERPILLAR 966H 5583 (S/N A6D02838)**  
 Component  
**Rear Axle**  
 Fluid  
**NOT GIVEN (--- GAL)**

## Sample Rating Trend



**NORMAL**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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>WC0774791</b>   | WC0840431   | ---      |
| Sample Date   | Client Info |             | <b>08 Nov 2023</b> | 26 Aug 2023 | ---      |
| Machine Age   | hrs         | Client Info | <b>37336</b>       | 36811       | ---      |
| Oil Age       | hrs         | Client Info | <b>0</b>           | 0           | ---      |
| Oil Changed   | Client Info |             | <b>N/A</b>         | N/A         | ---      |
| Sample Status |             |             | <b>NORMAL</b>      | ABNORMAL    | ---      |

## 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 D5185m >500 | <b>218</b> | 119      | ---      |
| Chromium | ppm    | ASTM D5185m >10  | <b>1</b>   | <1       | ---      |
| Nickel   | ppm    | ASTM D5185m >10  | <b>0</b>   | 0        | ---      |
| Titanium | ppm    | ASTM D5185m      | <b>0</b>   | <1       | ---      |
| Silver   | ppm    | ASTM D5185m      | <b>0</b>   | 0        | ---      |
| Aluminum | ppm    | ASTM D5185m >25  | <b>1</b>   | ▲ 26     | ---      |
| Lead     | ppm    | ASTM D5185m >25  | <b>0</b>   | 9        | ---      |
| Copper   | ppm    | ASTM D5185m >50  | <b>2</b>   | ▲ 74     | ---      |
| Tin      | ppm    | ASTM D5185m >10  | <b>0</b>   | 4        | ---      |
| Vanadium | ppm    | ASTM D5185m      | <b>0</b>   | 0        | ---      |
| Cadmium  | ppm    | ASTM D5185m      | <b>0</b>   | 0        | ---      |

## ADDITIVES

|            | method | limit/base  | current      | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m | <b>&lt;1</b> | 93       | ---      |
| Barium     | ppm    | ASTM D5185m | <b>0</b>     | 2        | ---      |
| Molybdenum | ppm    | ASTM D5185m | <b>5</b>     | 0        | ---      |
| Manganese  | ppm    | ASTM D5185m | <b>2</b>     | 1        | ---      |
| Magnesium  | ppm    | ASTM D5185m | <b>11</b>    | 1        | ---      |
| Calcium    | ppm    | ASTM D5185m | <b>2091</b>  | 45       | ---      |
| Phosphorus | ppm    | ASTM D5185m | <b>757</b>   | 288      | ---      |
| Zinc       | ppm    | ASTM D5185m | <b>902</b>   | 13       | ---      |
| Sulfur     | ppm    | ASTM D5185m | <b>9923</b>  | 858      | ---      |

## CONTAMINANTS

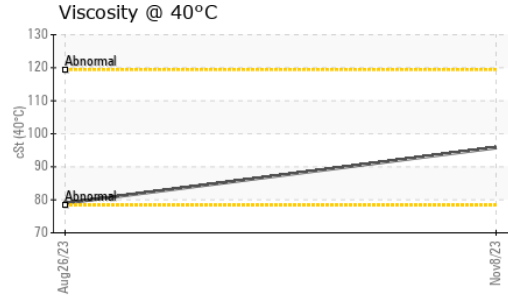
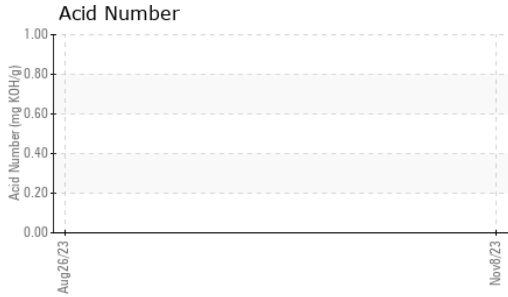
|           | method | limit/base      | current      | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >75 | <b>14</b>    | 18       | ---      |
| Sodium    | ppm    | ASTM D5185m     | <b>&lt;1</b> | 6        | ---      |
| Potassium | ppm    | ASTM D5185m >20 | <b>0</b>     | 2        | ---      |

## FLUID DEGRADATION

|                  | method   | limit/base | current     | history1 | history2 |
|------------------|----------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | <b>0.89</b> | ---      | ---      |



# OIL ANALYSIS REPORT



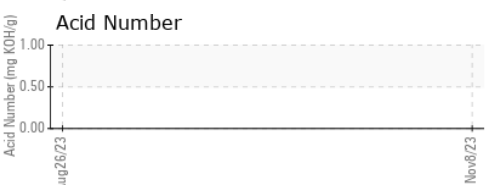
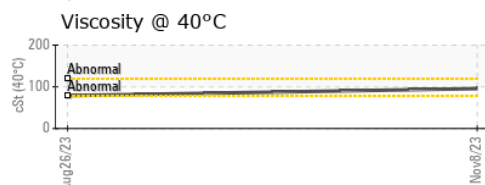
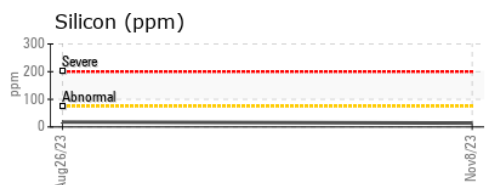
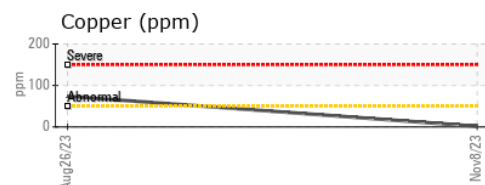
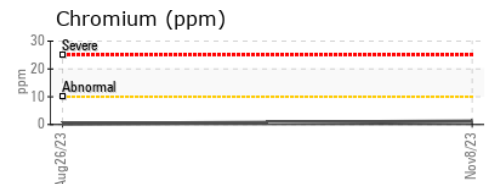
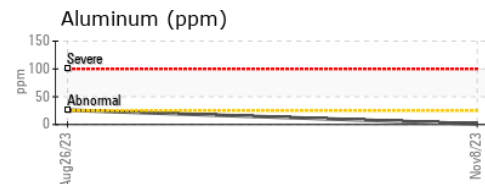
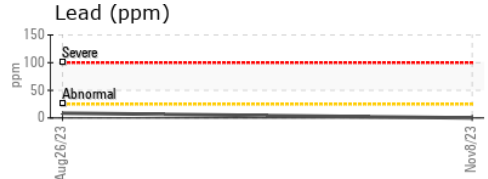
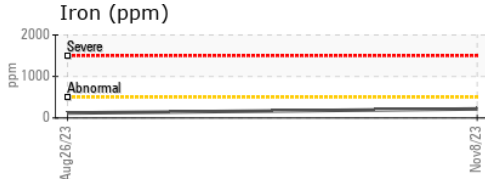
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      |
| 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 D445  | <b>95.8</b> | 79.0     | ---      |

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

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0774791 **Received** : 21 Nov 2023  
**Lab Number** : **06014155** **Diagnosed** : 22 Nov 2023  
**Unique Number** : 10753299 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

**INTERSTATE WASTE-NEWARK**  
 110 EVERGREEN AVE, BAY 3  
 NEWARK, NJ  
 US 07114  
 Contact: Robert Witynski  
 RWitynski@interstatewaste.com

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)

T:  
F: