



# OIL ANALYSIS REPORT

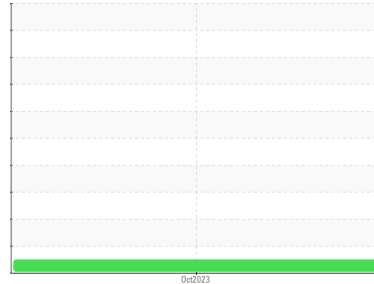
Sample Rating Trend

**NORMAL**



Area  
**TANNER LEANDER**  
Machine Id  
**17-046S14-1 D130**

Component  
**Hydraulic System**  
Fluid  
**NOT GIVEN (--- QTS)**



## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. 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

Insufficient sample was received to conduct all the routine laboratory tests. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### 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>WC0837664</b>   | ---      | ---      |
| Sample Date   | Client Info |             | <b>12 Oct 2023</b> | ---      | ---      |
| Machine Age   | hrs         | Client Info | <b>0</b>           | ---      | ---      |
| Oil Age       | hrs         | Client Info | <b>0</b>           | ---      | ---      |
| Oil Changed   | Client Info |             | <b>N/A</b>         | ---      | ---      |
| Sample Status |             |             | <b>NORMAL</b>      | ---      | ---      |

## WEAR METALS

|          | method | limit/base      | current  | history1 | history2 |
|----------|--------|-----------------|----------|----------|----------|
| Iron     | ppm    | ASTM D5185m >20 | <b>0</b> | ---      | ---      |
| Chromium | ppm    | ASTM D5185m >10 | <b>0</b> | ---      | ---      |
| Nickel   | ppm    | ASTM D5185m >10 | <b>0</b> | ---      | ---      |
| Titanium | ppm    | ASTM D5185m     | <b>0</b> | ---      | ---      |
| Silver   | ppm    | ASTM D5185m     | <b>0</b> | ---      | ---      |
| Aluminum | ppm    | ASTM D5185m >10 | <b>0</b> | ---      | ---      |
| Lead     | ppm    | ASTM D5185m >10 | <b>0</b> | ---      | ---      |
| Copper   | ppm    | ASTM D5185m >75 | <b>2</b> | ---      | ---      |
| Tin      | ppm    | ASTM D5185m >10 | <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 | <b>287</b>   | ---      | ---      |
| Barium     | ppm    | ASTM D5185m | <b>0</b>     | ---      | ---      |
| Molybdenum | ppm    | ASTM D5185m | <b>0</b>     | ---      | ---      |
| Manganese  | ppm    | ASTM D5185m | <b>&lt;1</b> | ---      | ---      |
| Magnesium  | ppm    | ASTM D5185m | <b>0</b>     | ---      | ---      |
| Calcium    | ppm    | ASTM D5185m | <b>45</b>    | ---      | ---      |
| Phosphorus | ppm    | ASTM D5185m | <b>1159</b>  | ---      | ---      |
| Zinc       | ppm    | ASTM D5185m | <b>0</b>     | ---      | ---      |
| Sulfur     | ppm    | ASTM D5185m | <b>464</b>   | ---      | ---      |

## CONTAMINANTS

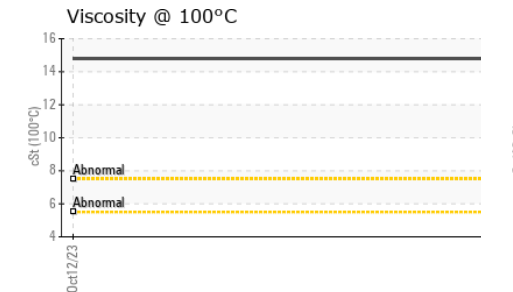
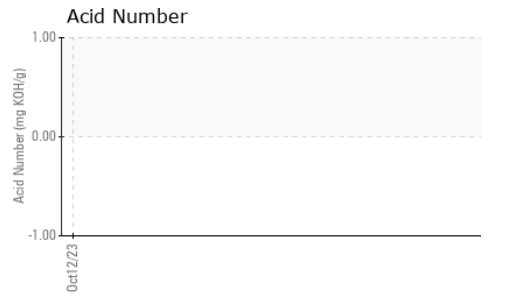
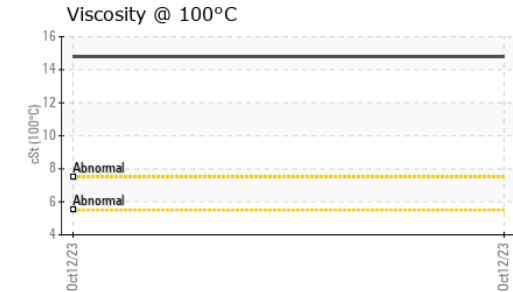
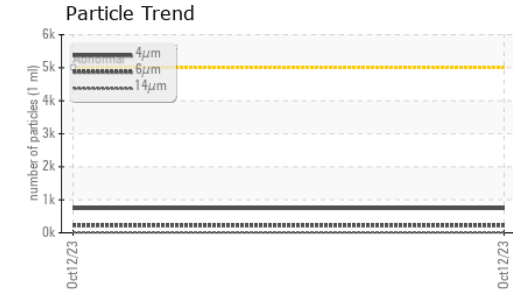
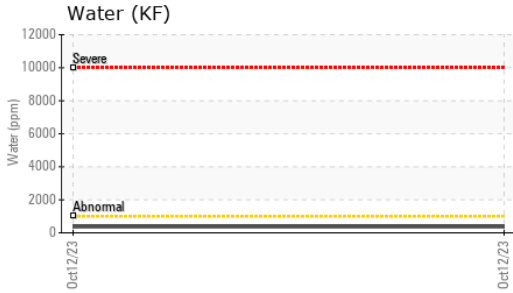
|           | method | limit/base       | current      | history1 | history2 |
|-----------|--------|------------------|--------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >20  | <b>5</b>     | ---      | ---      |
| Sodium    | ppm    | ASTM D5185m      | <b>1</b>     | ---      | ---      |
| Potassium | ppm    | ASTM D5185m >20  | <b>&lt;1</b> | ---      | ---      |
| Water     | %      | ASTM D6304 >0.1  | <b>0.036</b> | ---      | ---      |
| ppm Water | ppm    | ASTM D6304 >1000 | <b>367.1</b> | ---      | ---      |

## FLUID CLEANLINESS

|                 | method       | limit/base | current         | history1 | history2 |
|-----------------|--------------|------------|-----------------|----------|----------|
| Particles >4µm  | ASTM D7647   | >5000      | <b>743</b>      | ---      | ---      |
| Particles >6µm  | ASTM D7647   | >1300      | <b>222</b>      | ---      | ---      |
| Particles >14µm | ASTM D7647   | >160       | <b>14</b>       | ---      | ---      |
| Particles >21µm | ASTM D7647   | >40        | <b>4</b>        | ---      | ---      |
| Particles >38µm | ASTM D7647   | >10        | <b>0</b>        | ---      | ---      |
| Particles >71µm | ASTM D7647   | >3         | <b>0</b>        | ---      | ---      |
| Oil Cleanliness | ISO 4406 (c) | >19/17/14  | <b>17/15/11</b> | ---      | ---      |



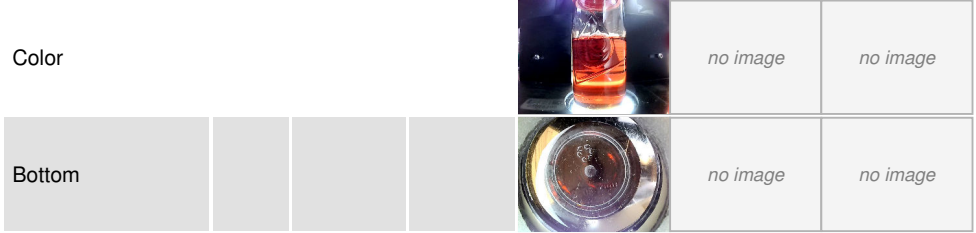
# OIL ANALYSIS REPORT



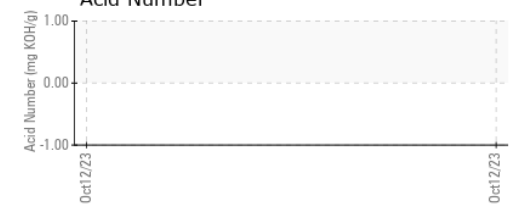
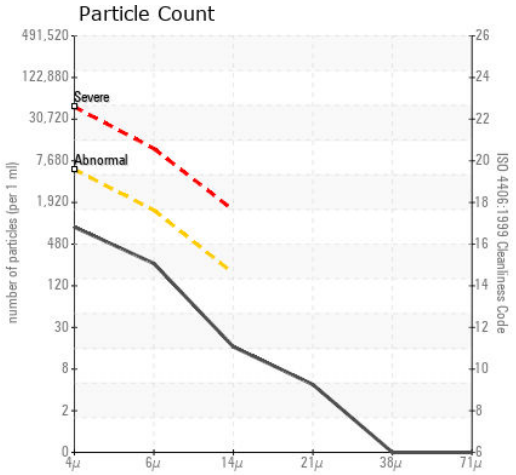
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      |
| 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 @ 40°C          | cSt    | ASTM D445  | 96.6    | ---      | ---      |
| Visc @ 100°C         | cSt    | ASTM D445  | 14.8    | ---      | ---      |
| Viscosity Index (VI) | Scale  | ASTM D2270 | 160     | ---      | ---      |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0837664 **Received** : 13 Oct 2023  
**Lab Number** : 05978896 **Diagnosed** : 17 Oct 2023  
**Unique Number** : 10696191 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: KF, KV100, VI )

**BASF - TARRYTOWN**  
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 TARRYTOWN, NY  
 US 10591  
 Contact: TANNER LEANDER  
 leander.tanner@basf.com  
 T:  
 F: (914)785-2166

Certificate L2367  
 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)