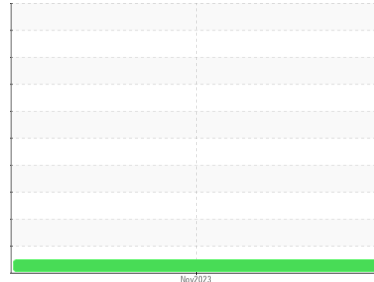




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**TADANO 1600-121T**  
 Component  
**Hydraulic System**  
 Fluid  
**SHELL TELLUS T32 (235 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### 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>WC0869233</b>   | ---      | ---      |
| Sample Date   | Client Info |             | <b>02 Nov 2023</b> | ---      | ---      |
| Machine Age   | hrs         | Client Info | <b>61</b>          | ---      | ---      |
| Oil Age       | hrs         | Client Info | <b>0</b>           | ---      | ---      |
| Oil Changed   | Client Info |             | <b>Filtered</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 >20 | <b>0</b> | ---      | ---      |
| Nickel   | ppm    | ASTM D5185m >20 | <b>0</b> | ---      | ---      |
| Titanium | ppm    | ASTM D5185m     | <b>0</b> | ---      | ---      |
| Silver   | ppm    | ASTM D5185m     | <b>0</b> | ---      | ---      |
| Aluminum | ppm    | ASTM D5185m >20 | <b>0</b> | ---      | ---      |
| Lead     | ppm    | ASTM D5185m >20 | <b>0</b> | ---      | ---      |
| Copper   | ppm    | ASTM D5185m >20 | <b>0</b> | ---      | ---      |
| Tin      | ppm    | ASTM D5185m >20 | <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>0</b>   | ---      | ---      |
| Barium     | ppm    | ASTM D5185m      | <b>0</b>   | ---      | ---      |
| Molybdenum | ppm    | ASTM D5185m      | <b>0</b>   | ---      | ---      |
| Manganese  | ppm    | ASTM D5185m      | <b>0</b>   | ---      | ---      |
| Magnesium  | ppm    | ASTM D5185m      | <b>39</b>  | ---      | ---      |
| Calcium    | ppm    | ASTM D5185m 48   | <b>8</b>   | ---      | ---      |
| Phosphorus | ppm    | ASTM D5185m 337  | <b>314</b> | ---      | ---      |
| Zinc       | ppm    | ASTM D5185m 426  | <b>248</b> | ---      | ---      |
| Sulfur     | ppm    | ASTM D5185m 2280 | <b>613</b> | ---      | ---      |

## CONTAMINANTS

|           | method | limit/base      | current      | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >15 | <b>&lt;1</b> | ---      | ---      |
| Sodium    | ppm    | ASTM D5185m     | <b>&lt;1</b> | ---      | ---      |
| Potassium | ppm    | ASTM D5185m >20 | <b>0</b>     | ---      | ---      |

## FLUID CLEANLINESS

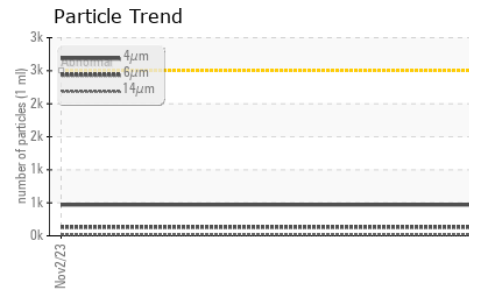
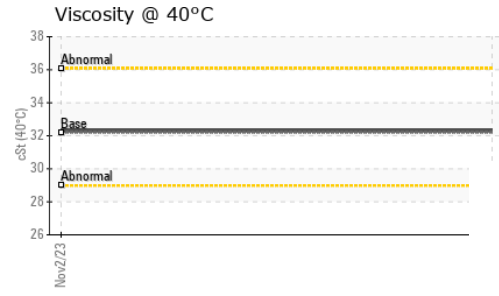
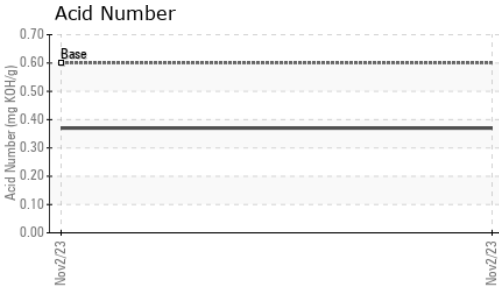
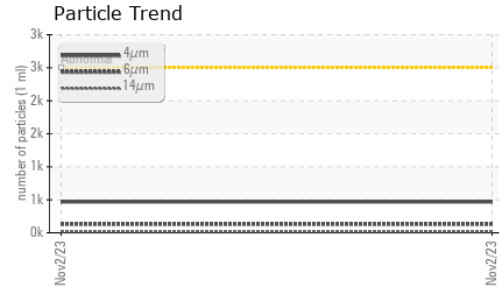
|                 | method       | limit/base | current         | history1 | history2 |
|-----------------|--------------|------------|-----------------|----------|----------|
| Particles >4µm  | ASTM D7647   | >2500      | <b>469</b>      | ---      | ---      |
| Particles >6µm  | ASTM D7647   | >320       | <b>132</b>      | ---      | ---      |
| Particles >14µm | ASTM D7647   | >80        | <b>18</b>       | ---      | ---      |
| Particles >21µm | ASTM D7647   | >20        | <b>3</b>        | ---      | ---      |
| Particles >38µm | ASTM D7647   | >4         | <b>0</b>        | ---      | ---      |
| Particles >71µm | ASTM D7647   | >3         | <b>0</b>        | ---      | ---      |
| Oil Cleanliness | ISO 4406 (c) | >18/15/13  | <b>16/14/11</b> | ---      | ---      |

## FLUID DEGRADATION

|                  | method   | limit/base    | current     | history1 | history2 |
|------------------|----------|---------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 .6 | <b>0.37</b> | ---      | ---      |



# OIL ANALYSIS REPORT



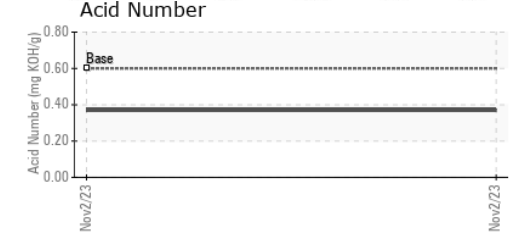
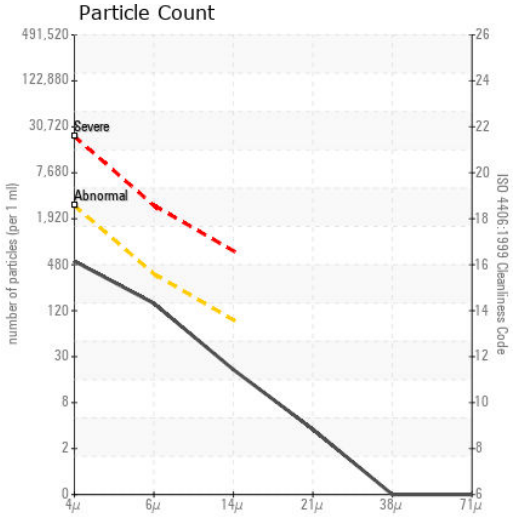
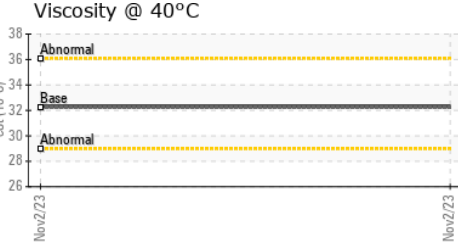
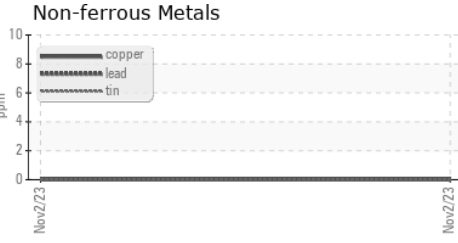
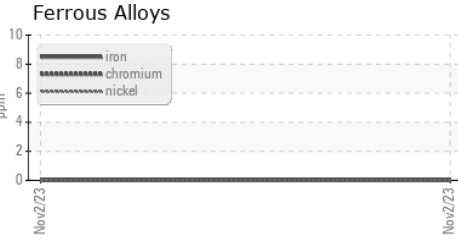
| VISUAL           | method | limit/base | current | history1 | history2 |     |
|------------------|--------|------------|---------|----------|----------|-----|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      | --- |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      | --- |
| 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    | >0.05   | NEG      | ---      | --- |
| Free Water       | scalar | *Visual    |         | NEG      | ---      | --- |

| FLUID PROPERTIES | method | limit/base | current | history1    | history2 |     |
|------------------|--------|------------|---------|-------------|----------|-----|
| Visc @ 40°C      | cSt    | ASTM D445  | 32.21   | <b>32.3</b> | ---      | --- |

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

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0869233 **Received** : 06 Nov 2023  
**Lab Number** : 05999019 **Diagnosed** : 07 Nov 2023  
**Unique Number** : 10727379 **Diagnostician** : Wes Davis  
**Test Package** : IND 2

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 US 24641  
 Contact: CHRIS RASNAKE  
 chris.rasnake@tadano.com  
 T:  
 F: (615)370-5670

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)