

# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**KUBOTA SUPER UDTZ UNIV TRANS**

Component  
**Transmission**

Fluid  
**{not provided} (--- GAL)**

**DIAGNOSIS**

**Recommendation**  
This is a baseline read-out on the submitted sample.

| SAMPLE INFORMATION |                 | method | limit/base | current            | history1 | history2 |
|--------------------|-----------------|--------|------------|--------------------|----------|----------|
| Sample Number      | Client Info     |        |            | <b>TO60002373</b>  | ---      | ---      |
| Sample Date        | Client Info     |        |            | <b>03 Apr 2024</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 | >200       | <b>2</b>     | ---      | ---      |
| Chromium    | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | ---      | ---      |
| Nickel      | ppm | ASTM D5185m |            | <b>&lt;1</b> | ---      | ---      |
| Titanium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | ---      | ---      |
| Silver      | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Aluminum    | ppm | ASTM D5185m | >50        | <b>1</b>     | ---      | ---      |
| Lead        | ppm | ASTM D5185m | >50        | <b>1</b>     | ---      | ---      |
| Copper      | ppm | ASTM D5185m | >200       | <b>1</b>     | ---      | ---      |
| Tin         | ppm | ASTM D5185m | >10        | <b>1</b>     | ---      | ---      |
| Vanadium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | ---      | ---      |
| Cadmium     | ppm | ASTM D5185m |            | <b>1</b>     | ---      | ---      |

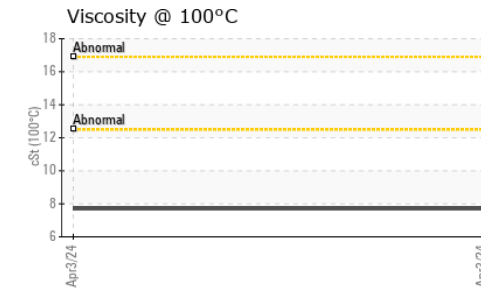
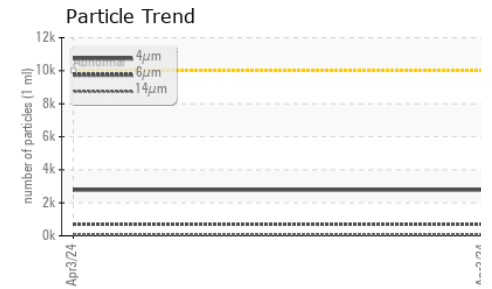
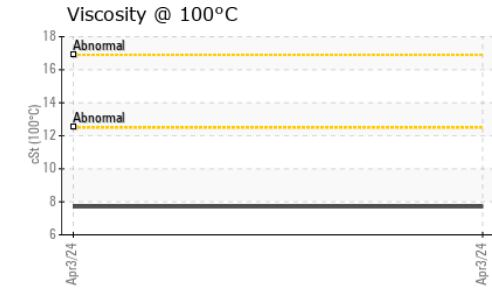
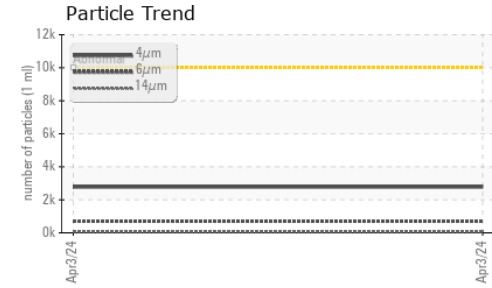
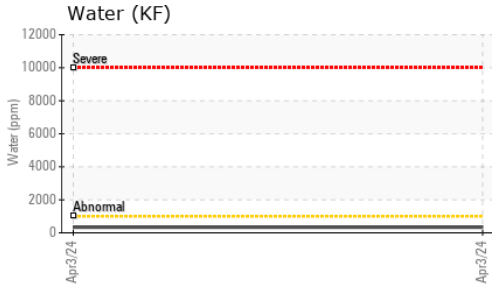
| ADDITIVES  |     | method      | limit/base | current     | history1 | history2 |
|------------|-----|-------------|------------|-------------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | <b>0</b>    | ---      | ---      |
| Barium     | ppm | ASTM D5185m |            | <b>1</b>    | ---      | ---      |
| Molybdenum | ppm | ASTM D5185m |            | <b>2</b>    | ---      | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>1</b>    | ---      | ---      |
| Magnesium  | ppm | ASTM D5185m |            | <b>8</b>    | ---      | ---      |
| Calcium    | ppm | ASTM D5185m |            | <b>3385</b> | ---      | ---      |
| Phosphorus | ppm | ASTM D5185m |            | <b>730</b>  | ---      | ---      |
| Zinc       | ppm | ASTM D5185m |            | <b>817</b>  | ---      | ---      |
| Sulfur     | ppm | ASTM D5185m |            | <b>2616</b> | ---      | ---      |

| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >50        | <b>7</b>     | ---      | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>9</b>     | ---      | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>2</b>     | ---      | ---      |
| Water        | %   | ASTM D6304  | >0.1       | <b>0.033</b> | ---      | ---      |
| ppm Water    | ppm | ASTM D6304  | >1000      | <b>338</b>   | ---      | ---      |

| FLUID CLEANLINESS |  | method       | limit/base | current         | history1 | history2 |
|-------------------|--|--------------|------------|-----------------|----------|----------|
| Particles >4µm    |  | ASTM D7647   | >10000     | <b>2780</b>     | ---      | ---      |
| Particles >6µm    |  | ASTM D7647   | >2500      | <b>705</b>      | ---      | ---      |
| Particles >14µm   |  | ASTM D7647   | >320       | <b>61</b>       | ---      | ---      |
| Particles >21µm   |  | ASTM D7647   | >80        | <b>13</b>       | ---      | ---      |
| Particles >38µm   |  | ASTM D7647   | >20        | <b>1</b>        | ---      | ---      |
| Particles >71µm   |  | ASTM D7647   | >4         | <b>0</b>        | ---      | ---      |
| Oil Cleanliness   |  | ISO 4406 (c) | >20/18/15  | <b>19/17/13</b> | ---      | ---      |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 |            | <b>1.08</b> | ---      | ---      |

# OIL ANALYSIS REPORT

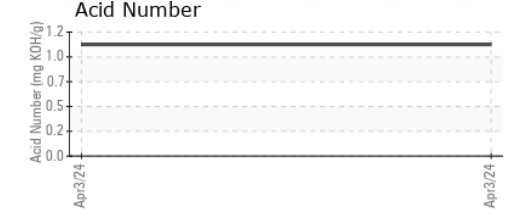
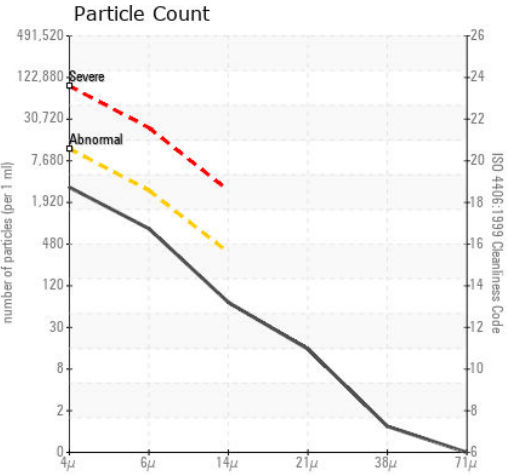
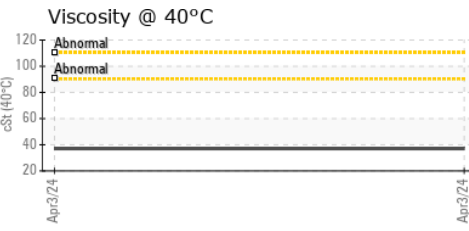
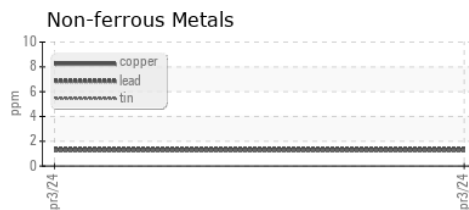
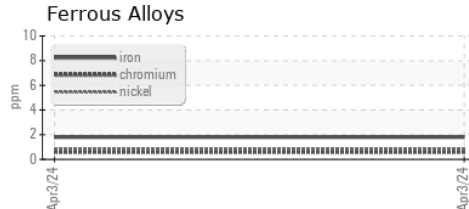


| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      |
| 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  | 37.1    | ---      | ---      |
| Visc @ 100°C         | cSt    | ASTM D445  | 7.7     | ---      | ---      |
| Viscosity Index (VI) | Scale  | ASTM D2270 | 183     | ---      | ---      |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
| Color         |        |            |         | no image | no image |
| Bottom        |        |            |         | no image | no image |

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO60002373  
**Lab Number** : 06146584  
**Unique Number** : 10976662  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PQ, PrtCount, VI )

**Received** : 11 Apr 2024  
**Tested** : 16 Apr 2024  
**Diagnosed** : 16 Apr 2024 - Jonathan Hester

**GREAT PLAINS MFG**  
 3861 S 9TH ST  
 SALINA, KS  
 US 67401

Contact: CRAIG NEWCOMER  
 craig.newcomer@greatplainsmfg.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: