



**PERFORMANCE  
UNDER  
PRESSURE**

**OIL ANALYSIS REPORT**

|                 |               |
|-----------------|---------------|
| WEAR            | <b>NORMAL</b> |
| CONTAMINATION   | <b>SEVERE</b> |
| FLUID CONDITION | <b>NORMAL</b> |

Area  
**TM 5**  
Machine Id  
**TM 5 TAD ROLL DRIVE**  
Component  
**Gearbox**  
Fluid  
**{not provided} (--- GAL)**

**RECOMMENDATION**

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number  |     | Client Info |           | <b>RP0038112</b>   | ---      | ---      |
| Sample Date    |     | Client Info |           | <b>29 Jan 2024</b> | ---      | ---      |
| Machine Age    | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | ---      | ---      |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | ---      | ---      |
| Sample Status  |     |             |           | <b>SEVERE</b>      | ---      | ---      |

**WEAR**

All component wear rates are normal.

|              |        |             |      |              |     |     |
|--------------|--------|-------------|------|--------------|-----|-----|
| PQ           |        | ASTM D8184  |      | <b>15</b>    | --- | --- |
| Iron         | ppm    | ASTM D5185m | >200 | <b>21</b>    | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >15  | <b>5</b>     | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >15  | <b>4</b>     | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | --- | --- |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>2</b>     | --- | --- |
| Lead         | ppm    | ASTM D5185m | >100 | <b>&lt;1</b> | --- | --- |
| Copper       | ppm    | ASTM D5185m | >200 | <b>21</b>    | --- | --- |
| Tin          | ppm    | ASTM D5185m | >25  | <b>&lt;1</b> | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | --- | --- |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | --- | --- |

**CONTAMINATION**

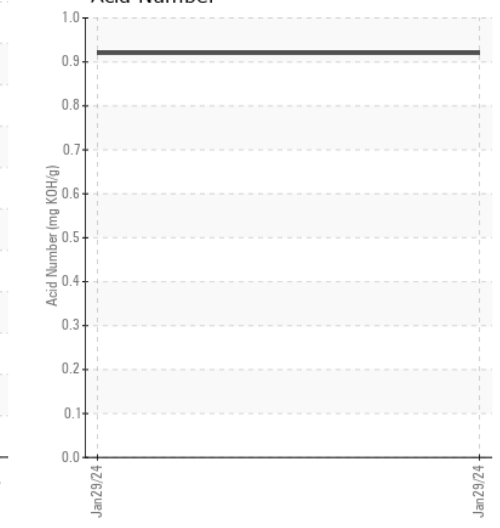
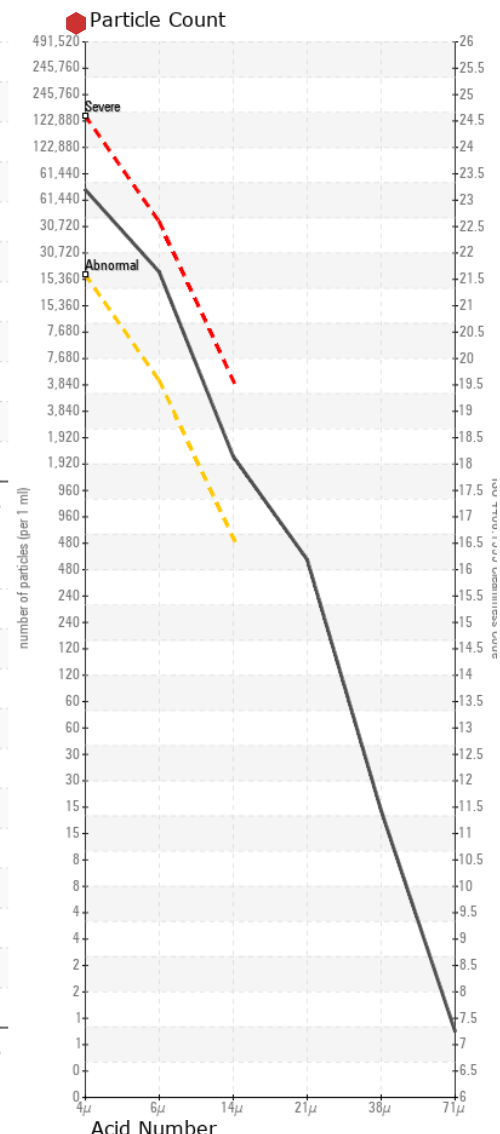
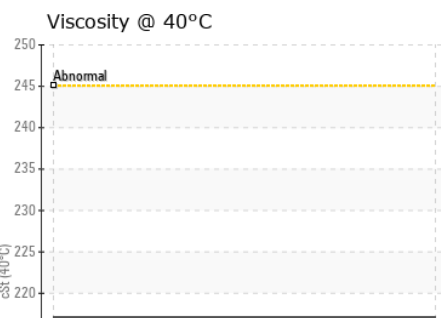
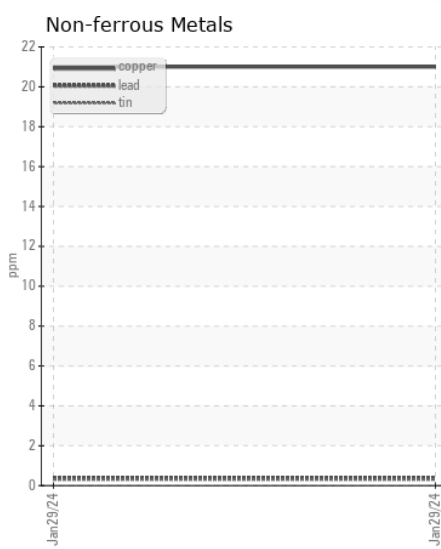
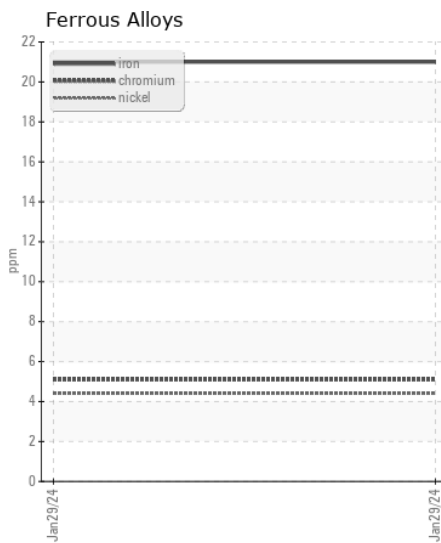
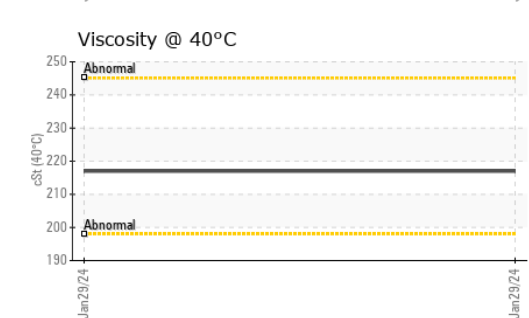
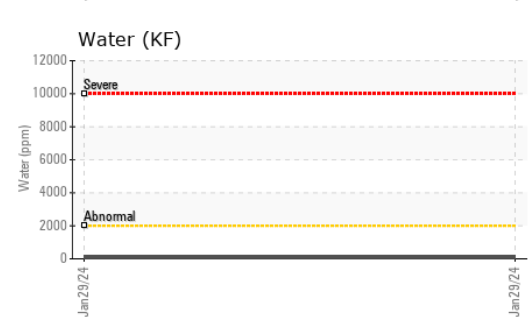
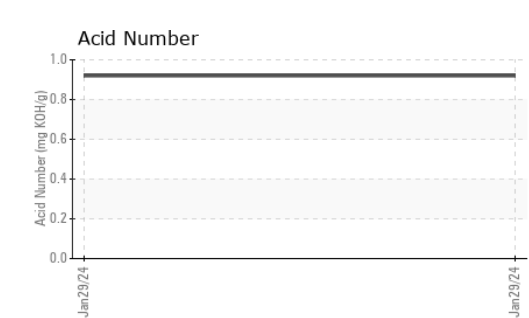
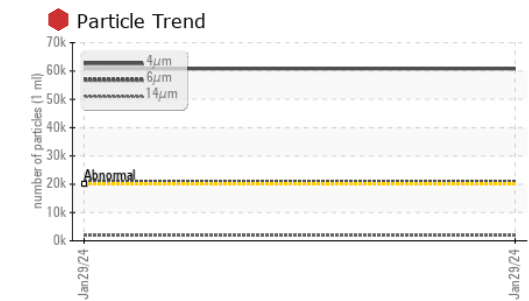
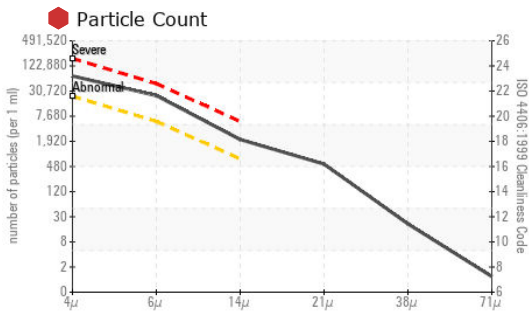
There is a high amount of particulates present in the oil.

|                  |        |              |           |                 |     |     |
|------------------|--------|--------------|-----------|-----------------|-----|-----|
| Silicon          | ppm    | ASTM D5185m  | >50       | <b>3</b>        | --- | --- |
| Potassium        | ppm    | ASTM D5185m  | >20       | <b>2</b>        | --- | --- |
| Water            | %      | ASTM D6304   | >0.2      | <b>0.007</b>    | --- | --- |
| ppm Water        | ppm    | ASTM D6304   | >2000     | <b>78</b>       | --- | --- |
| Particles >4µm   |        | ASTM D7647   | >20000    | <b>60834</b>    | --- | --- |
| Particles >6µm   |        | ASTM D7647   | >5000     | <b>20727</b>    | --- | --- |
| Particles >14µm  |        | ASTM D7647   | >640      | <b>1856</b>     | --- | --- |
| Particles >21µm  |        | ASTM D7647   | >160      | <b>481</b>      | --- | --- |
| Particles >38µm  |        | ASTM D7647   | >40       | <b>18</b>       | --- | --- |
| Particles >71µm  |        | ASTM D7647   | >10       | <b>1</b>        | --- | --- |
| Oil Cleanliness  |        | ISO 4406 (c) | >21/19/16 | <b>23/22/18</b> | --- | --- |
| Silt             | scalar | *Visual      | NONE      | <b>NONE</b>     | --- | --- |
| Debris           | scalar | *Visual      | NONE      | <b>LIGHT</b>    | --- | --- |
| Sand/Dirt        | scalar | *Visual      | NONE      | <b>NONE</b>     | --- | --- |
| Appearance       | scalar | *Visual      | NORML     | <b>NORML</b>    | --- | --- |
| Odor             | scalar | *Visual      | NORML     | <b>NORML</b>    | --- | --- |
| Emulsified Water | scalar | *Visual      | >0.2      | <b>NEG</b>      | --- | --- |

**FLUID CONDITION**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

|                  |          |             |  |             |     |     |
|------------------|----------|-------------|--|-------------|-----|-----|
| Sodium           | ppm      | ASTM D5185m |  | <b>0</b>    | --- | --- |
| Boron            | ppm      | ASTM D5185m |  | <b>0</b>    | --- | --- |
| Barium           | ppm      | ASTM D5185m |  | <b>0</b>    | --- | --- |
| Molybdenum       | ppm      | ASTM D5185m |  | <b>1</b>    | --- | --- |
| Manganese        | ppm      | ASTM D5185m |  | <b>0</b>    | --- | --- |
| Magnesium        | ppm      | ASTM D5185m |  | <b>3</b>    | --- | --- |
| Calcium          | ppm      | ASTM D5185m |  | <b>168</b>  | --- | --- |
| Phosphorus       | ppm      | ASTM D5185m |  | <b>1176</b> | --- | --- |
| Zinc             | ppm      | ASTM D5185m |  | <b>1717</b> | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045  |  | <b>0.92</b> | --- | --- |
| Visc @ 40°C      | cSt      | ASTM D445   |  | <b>217</b>  | --- | --- |



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0038112 **Received** : 30 Jan 2024  
**Lab Number** : 06074717 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 10856808 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: PQ, PrtCount )

**Kimberly-Clark - Mobile - TM 5**  
 200 BAYBRIDGE RD  
 MOBILE, AL  
 US 36610  
 Contact: WAYNE PERRY  
 wayne.perry@kcc.com  
 T: (251)330-2386  
 F: (251)452-6335

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)