

# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id

**H189**

Component

**Hydraulic System**

Fluid

**AW HYDRAULIC OIL ISO 46 (--- GAL)**

**DIAGNOSIS**

**Recommendation**

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm.

NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

**Wear**

All component wear rates are normal.

**Contamination**

There is no indication of any contamination in the oil.

**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>HRE0000028</b>  | ---      | ---      |
| Sample Date        | Client Info |             |            | <b>05 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>      | ---      | ---      |

| CONTAMINATION |           | method | limit/base | current    | history1 | history2 |
|---------------|-----------|--------|------------|------------|----------|----------|
| Water         | WC Method |        | >0.05      | <b>NEG</b> | ---      | ---      |

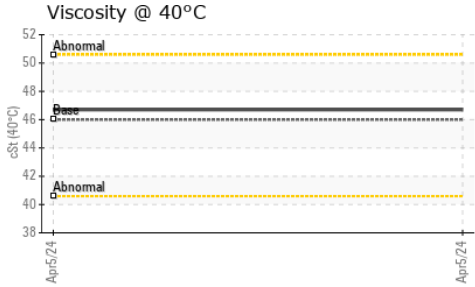
| WEAR METALS |     | method      | limit/base | current  | history1 | history2 |
|-------------|-----|-------------|------------|----------|----------|----------|
| Iron        | ppm | ASTM D5185m | >20        | <b>6</b> | ---      | ---      |
| Chromium    | ppm | ASTM D5185m | >20        | <b>2</b> | ---      | ---      |
| 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>4</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 | 5          | <b>0</b>    | ---      | ---      |
| Barium     | ppm | ASTM D5185m | 5          | <b>0</b>    | ---      | ---      |
| Molybdenum | ppm | ASTM D5185m | 5          | <b>0</b>    | ---      | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>0</b>    | ---      | ---      |
| Magnesium  | ppm | ASTM D5185m | 25         | <b>3</b>    | ---      | ---      |
| Calcium    | ppm | ASTM D5185m | 200        | <b>35</b>   | ---      | ---      |
| Phosphorus | ppm | ASTM D5185m | 300        | <b>298</b>  | ---      | ---      |
| Zinc       | ppm | ASTM D5185m | 370        | <b>321</b>  | ---      | ---      |
| Sulfur     | ppm | ASTM D5185m | 2500       | <b>3190</b> | ---      | ---      |

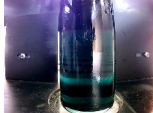

| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >15        | <b>1</b>     | ---      | ---      |
| Sodium       | ppm | ASTM D5185m |   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

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

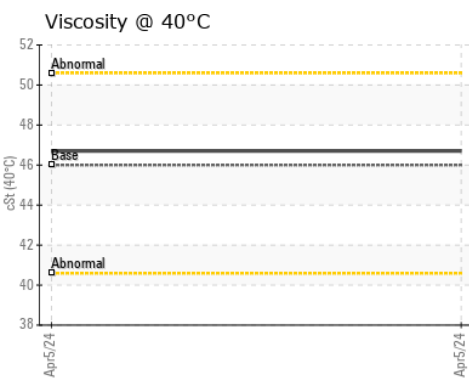
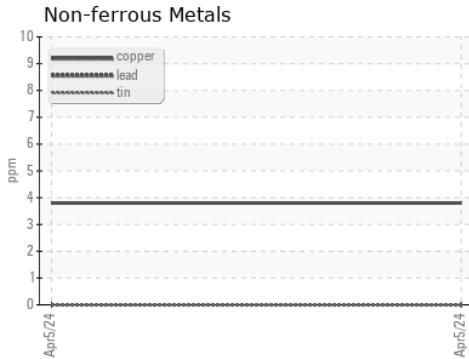
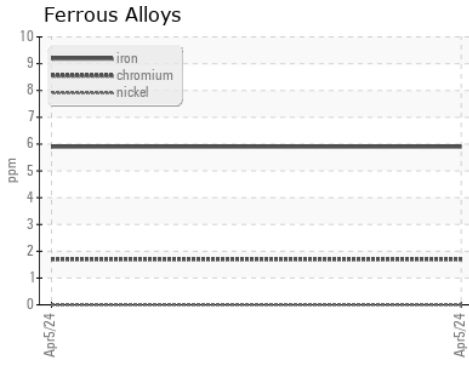
# OIL ANALYSIS REPORT



| FLUID PROPERTIES | method | limit/base | current | history1    | history2 |     |
|------------------|--------|------------|---------|-------------|----------|-----|
| Visc @ 40°C      | cSt    | ASTM D445  | 46      | <b>46.7</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.** : HRE0000028      **Received** : 05 Apr 2024  
**Lab Number** : **06140370**      **Tested** : 08 Apr 2024  
**Unique Number** : 10965178      **Diagnosed** : 08 Apr 2024 - Wes Davis  
**Test Package** : IND 1

**SUMIRIKO TENNESSEE INC**  
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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)