



OIL ANALYSIS REPORT

|                 |        |
|-----------------|--------|
| WEAR            | NORMAL |
| CONTAMINATION   | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id  
**TAPONADORA**  
 Component  
**Hydraulic System**  
 Fluid  
**FIRE-RESISTANT FLUID ISO 46 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>AN06060260</b>  | AN06060245  | AN06060248  |
| Sample Date    |     | Client Info |           | <b>10 Nov 2023</b> | 20 Sep 2023 | 15 Sep 2023 |
| Machine Age    | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | N/A         | N/A         |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | N/A         | N/A         |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ---         | ---         |

**WEAR**

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185m | >20  | <b>&lt;1</b> | 0    | ▲ 34 |
| Chromium     | ppm    | ASTM D5185m | >20  | <b>&lt;1</b> | <1   | 1    |
| Nickel       | ppm    | ASTM D5185m | >20  | <b>0</b>     | 0    | 0    |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m | >20  | <b>2</b>     | 2    | 2    |
| Lead         | ppm    | ASTM D5185m | >20  | <b>0</b>     | 0    | 0    |
| Copper       | ppm    | ASTM D5185m | >20  | <b>&lt;1</b> | 0    | 2    |
| Tin          | ppm    | ASTM D5185m | >20  | <b>3</b>     | 4    | 0    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

**CONTAMINATION**

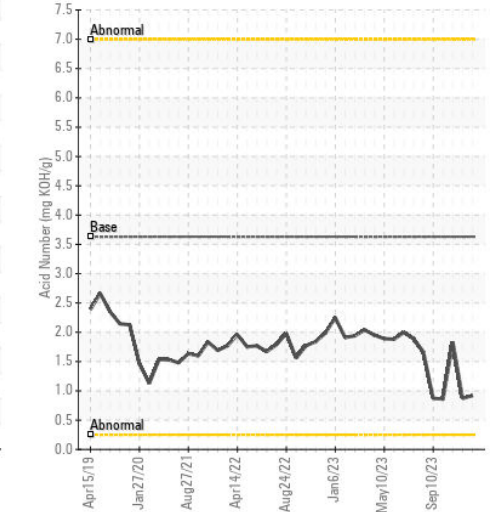
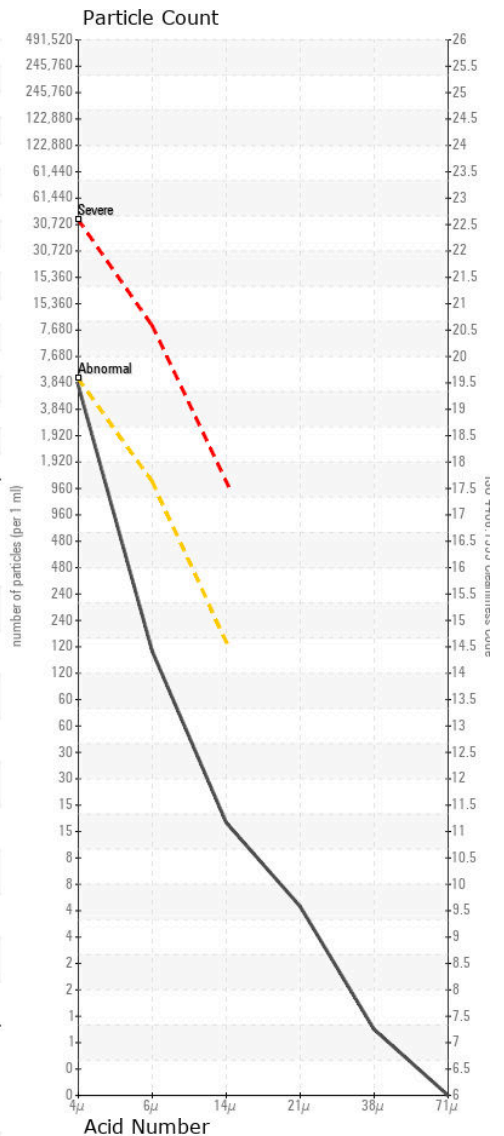
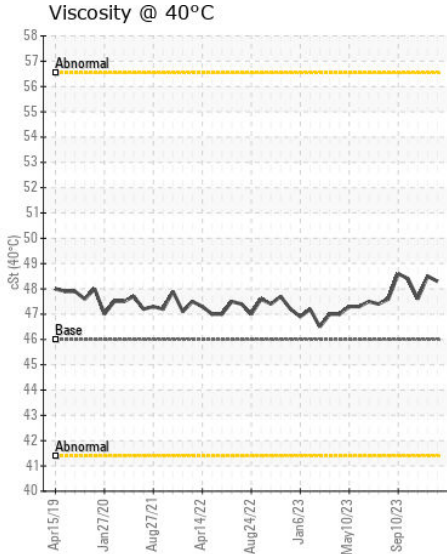
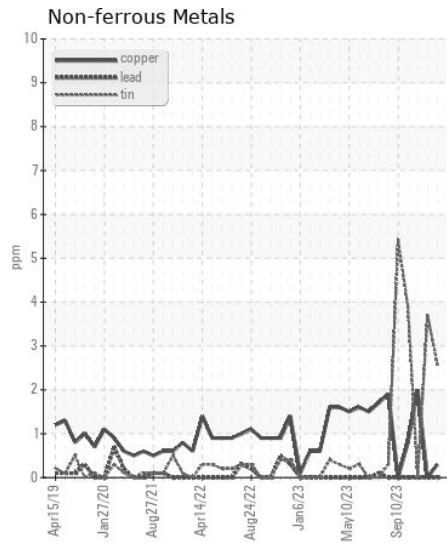
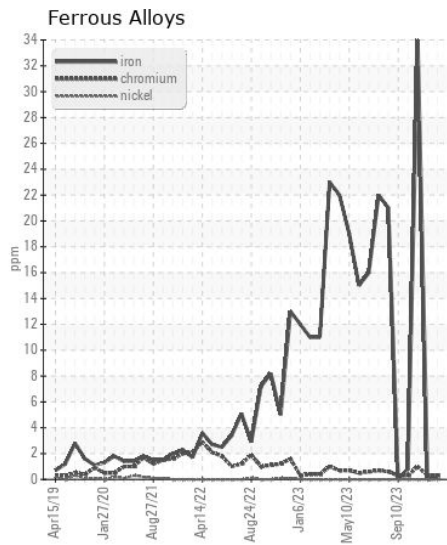
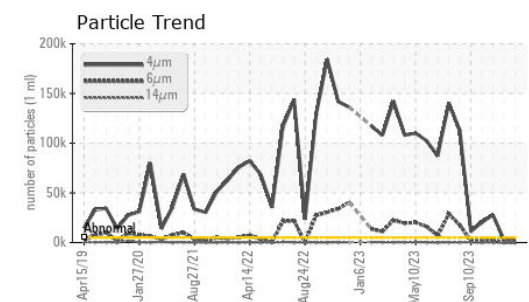
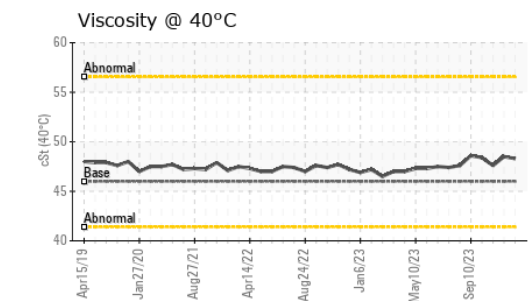
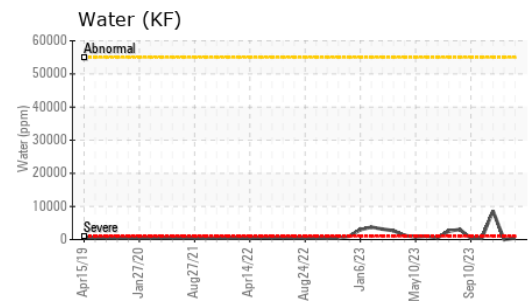
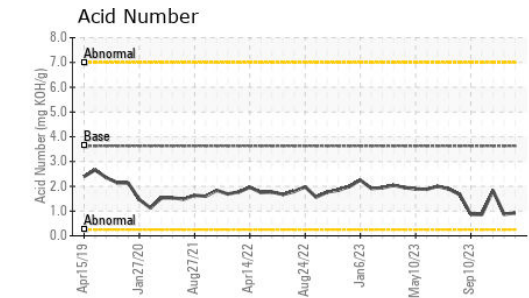
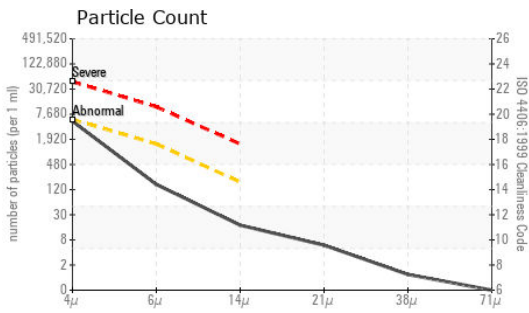
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

|                  |        |              |           |                 |          |            |
|------------------|--------|--------------|-----------|-----------------|----------|------------|
| Silicon          | ppm    | ASTM D5185m  | >15       | <b>&lt;1</b>    | <1       | 3          |
| Potassium        | ppm    | ASTM D5185m  | >20       | <b>&lt;1</b>    | <1       | 2          |
| Water            | %      | ASTM D6304   | >55       | <b>0.044</b>    | ▲ 0.00   | ▲ 0.866    |
| ppm Water        | ppm    | ASTM D6304   | >55000    | <b>444</b>      | ▲ 0      | ▲ 8660     |
| Particles >4µm   |        | ASTM D7647   | >5000     | <b>4570</b>     | 2632     | ▲ 27843    |
| Particles >6µm   |        | ASTM D7647   | >1300     | <b>141</b>      | 254      | ▲ 2115     |
| Particles >14µm  |        | ASTM D7647   | >160      | <b>15</b>       | 13       | 69         |
| Particles >21µm  |        | ASTM D7647   | >40       | <b>5</b>        | 3        | 16         |
| Particles >38µm  |        | ASTM D7647   | >10       | <b>1</b>        | 1        | 1          |
| Particles >71µm  |        | ASTM D7647   | >3        | <b>0</b>        | 1        | 0          |
| Oil Cleanliness  |        | ISO 4406 (c) | >19/17/14 | <b>19/14/11</b> | 19/15/11 | ▲ 22/18/13 |
| Silt             | scalar | *Visual      | NONE      | <b>NONE</b>     | NONE     | NONE       |
| Debris           | scalar | *Visual      | NONE      | <b>NONE</b>     | NONE     | NONE       |
| Sand/Dirt        | scalar | *Visual      | NONE      | <b>NONE</b>     | NONE     | NONE       |
| Appearance       | scalar | *Visual      | NORML     | <b>NORML</b>    | NORML    | NORML      |
| Odor             | scalar | *Visual      | NORML     | <b>NORML</b>    | NORML    | NORML      |
| Emulsified Water | scalar | *Visual      | >55       | <b>NEG</b>      | NEG      | 0.2%       |

**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>&lt;1</b> | 0      | 8      |
| Boron            | ppm      | ASTM D5185m | 5    | <b>0</b>     | 0      | 0      |
| Barium           | ppm      | ASTM D5185m | 5    | <b>0</b>     | 0      | 0      |
| Molybdenum       | ppm      | ASTM D5185m | 5    | <b>0</b>     | 0      | 0      |
| Manganese        | ppm      | ASTM D5185m |      | <b>0</b>     | 0      | <1     |
| Magnesium        | ppm      | ASTM D5185m | 5    | <b>0</b>     | 0      | 2      |
| Calcium          | ppm      | ASTM D5185m | 50   | <b>0</b>     | 0      | 7      |
| Phosphorus       | ppm      | ASTM D5185m | 175  | <b>235</b>   | 236    | 249    |
| Zinc             | ppm      | ASTM D5185m | 62   | <b>0</b>     | 0      | 0      |
| Sulfur           | ppm      | ASTM D5185m | 500  | <b>1931</b>  | ▲ 1897 | ▲ 1823 |
| Acid Number (AN) | mg KOH/g | ASTM D8045  | 3.63 | <b>0.92</b>  | 0.87   | 1.83   |
| Visc @ 40°C      | cSt      | ASTM D445   | 46   | <b>48.3</b>  | 48.5   | 47.6   |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : AN06060260 **Received** : 12 Jan 2024  
**Lab Number** : 06060260 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 10831642 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: pH, PrtCount, ReserveAlk )

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)

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