



FORENSIC  
AND  
SCIENTIFIC  
TESTING INC.

OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

**ABNORMAL**  
**NORMAL**  
**NORMAL**

Machine Id  
**TOYOTA 248-895**

Component  
**Transmission**

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

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

**WEAR**

Clutch wear is indicated.

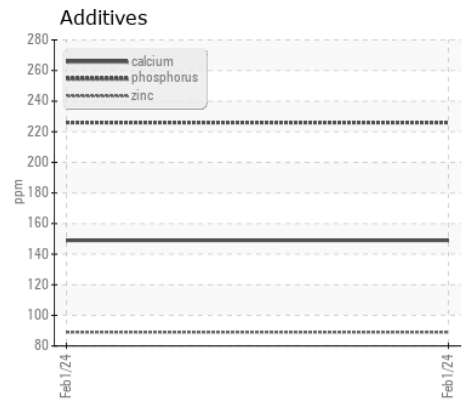
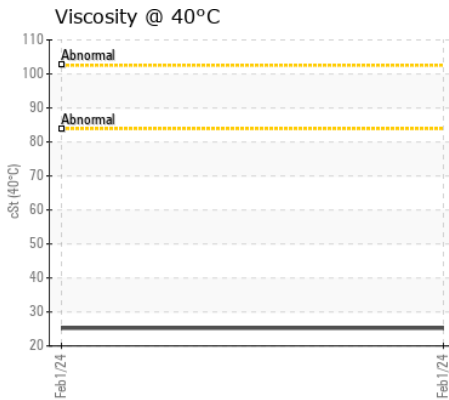
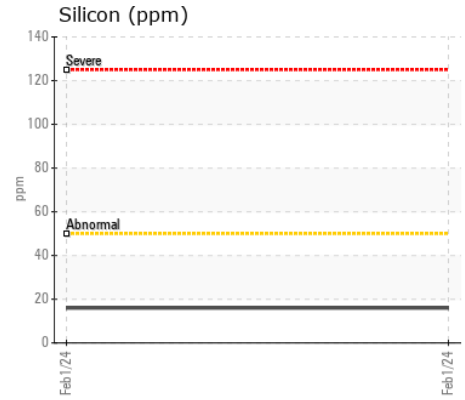
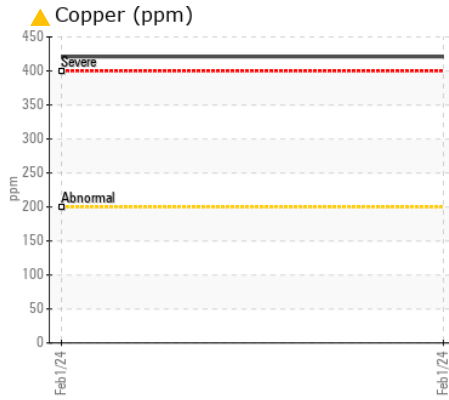
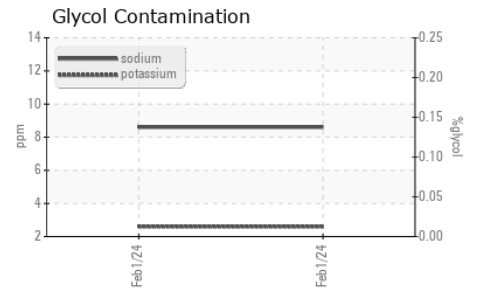
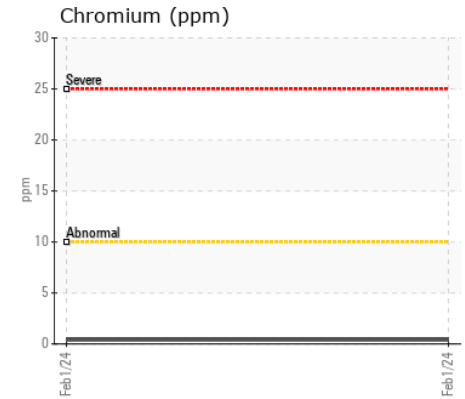
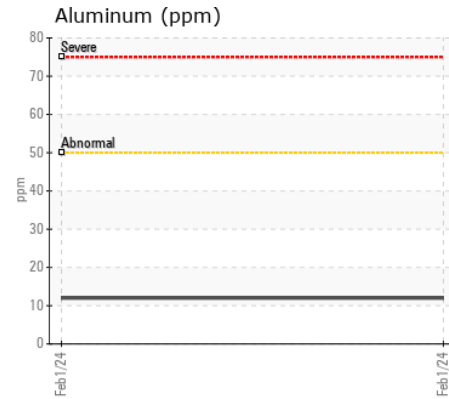
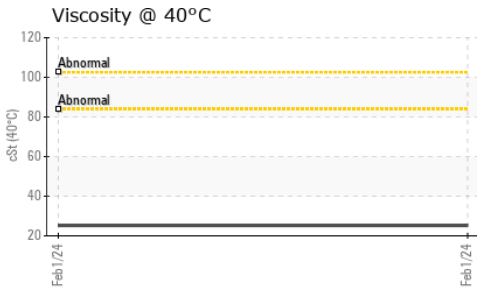
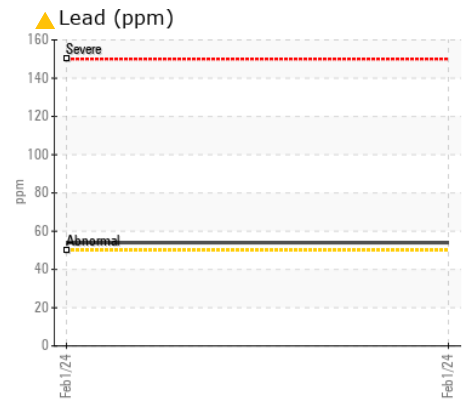
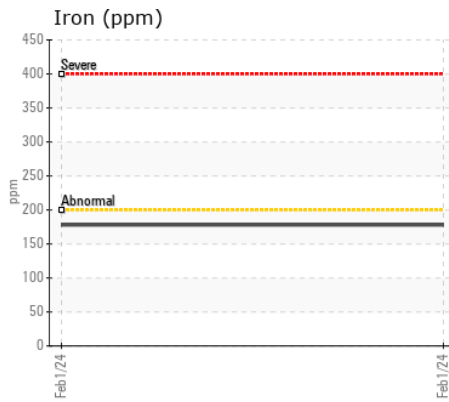
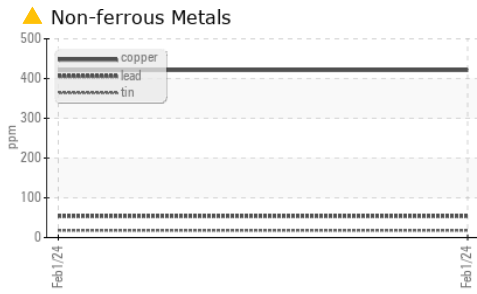
**CONTAMINATION**

There is no indication of any contamination in the fluid.

**FLUID CONDITION**

The condition of the fluid is acceptable for the time in service.

| Test             | UOM    | Method      | Limit/Abn | Current            | History1 | History2 |
|------------------|--------|-------------|-----------|--------------------|----------|----------|
| Sample Number    |        | Client Info |           | <b>FSM1397154</b>  | ---      | ---      |
| Sample Date      |        | Client Info |           | <b>01 Feb 2024</b> | ---      | ---      |
| Machine Age      | mls    | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Age          | mls    | Client Info |           | <b>0</b>           | ---      | ---      |
| Filter Age       | mls    | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Changed      |        | Client Info |           | <b>N/A</b>         | ---      | ---      |
| Filter Changed   |        | Client Info |           | <b>N/A</b>         | ---      | ---      |
| Sample Status    |        |             |           | <b>ABNORMAL</b>    | ---      | ---      |
| Iron             | ppm    | ASTM D5185m | >200      | <b>178</b>         | ---      | ---      |
| Chromium         | ppm    | ASTM D5185m | >10       | <b>&lt;1</b>       | ---      | ---      |
| Nickel           | ppm    | ASTM D5185m |           | <b>0</b>           | ---      | ---      |
| Titanium         | ppm    | ASTM D5185m |           | <b>&lt;1</b>       | ---      | ---      |
| Silver           | ppm    | ASTM D5185m |           | <b>0</b>           | ---      | ---      |
| Aluminum         | ppm    | ASTM D5185m | >50       | <b>12</b>          | ---      | ---      |
| Lead             | ppm    | ASTM D5185m | >50       | <b>▲ 54</b>        | ---      | ---      |
| Copper           | ppm    | ASTM D5185m | >200      | <b>▲ 421</b>       | ---      | ---      |
| Tin              | ppm    | ASTM D5185m | >10       | <b>▲ 18</b>        | ---      | ---      |
| Vanadium         | ppm    | ASTM D5185m |           | <b>0</b>           | ---      | ---      |
| White Metal      | scalar | *Visual     | NONE      | <b>NONE</b>        | ---      | ---      |
| Yellow Metal     | scalar | *Visual     | NONE      | <b>NONE</b>        | ---      | ---      |
| Silicon          | ppm    | ASTM D5185m | >50       | <b>16</b>          | ---      | ---      |
| Potassium        | ppm    | ASTM D5185m | >20       | <b>3</b>           | ---      | ---      |
| Water            |        | WC Method   | >0.1      | <b>NEG</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     | >0.1      | <b>NEG</b>         | ---      | ---      |
| Sodium           | ppm    | ASTM D5185m |           | <b>9</b>           | ---      | ---      |
| Boron            | ppm    | ASTM D5185m |           | <b>42</b>          | ---      | ---      |
| Barium           | ppm    | ASTM D5185m |           | <b>1</b>           | ---      | ---      |
| Molybdenum       | ppm    | ASTM D5185m |           | <b>2</b>           | ---      | ---      |
| Manganese        | ppm    | ASTM D5185m |           | <b>2</b>           | ---      | ---      |
| Magnesium        | ppm    | ASTM D5185m |           | <b>21</b>          | ---      | ---      |
| Calcium          | ppm    | ASTM D5185m |           | <b>149</b>         | ---      | ---      |
| Phosphorus       | ppm    | ASTM D5185m |           | <b>226</b>         | ---      | ---      |
| Zinc             | ppm    | ASTM D5185m |           | <b>89</b>          | ---      | ---      |
| Sulfur           | ppm    | ASTM D5185m |           | <b>1828</b>        | ---      | ---      |
| Visc @ 40°C      | cSt    | ASTM D445   |           | <b>25.23</b>       | ---      | ---      |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : FSM1397154 **Received** : 01 Feb 2024  
**Lab Number** : 06077260 **Tested** : 07 Feb 2024  
**Unique Number** : 10859351 **Diagnosed** : 07 Feb 2024 - Jonathan Hester  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

**FORENSIC & SCIENTIFIC TESTING**  
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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)