



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



Machine Id

**5011**

Component

**Transmission (Auto)**

Fluid

**VOLVO AUTOMATIC TRANSMISSION FLUID AT102 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>JR0221922</b>   | JR0159590   | JR0112025   |
| Sample Date    |     | Client Info |           | <b>17 Jun 2024</b> | 01 Mar 2023 | 08 Jun 2022 |
| Machine Age    | hrs | Client Info |           | <b>15380</b>       | 13227       | 11686       |
| Oil Age        | hrs | Client Info |           | <b>1000</b>        | 0           | 0           |
| Filter Age     | hrs | Client Info |           | <b>1000</b>        | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Changed     | Not Changd  |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | N/A         | Not Changd  |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

### WEAR

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| PQ           |        | ASTM D8184  | >50  | <b>16</b>    | 17   | 21   |
| Iron         | ppm    | ASTM D5185m | >160 | <b>8</b>     | 9    | 8    |
| Chromium     | ppm    | ASTM D5185m | >5   | <b>0</b>     | 0    | 0    |
| Nickel       | ppm    | ASTM D5185m | >5   | <b>&lt;1</b> | 0    | 0    |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Silver       | ppm    | ASTM D5185m | >5   | <b>0</b>     | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m | >50  | <b>4</b>     | 4    | 4    |
| Lead         | ppm    | ASTM D5185m | >50  | <b>0</b>     | 2    | 2    |
| Copper       | ppm    | ASTM D5185m | >225 | <b>0</b>     | 2    | <1   |
| Tin          | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | <1   | 1    |
| 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

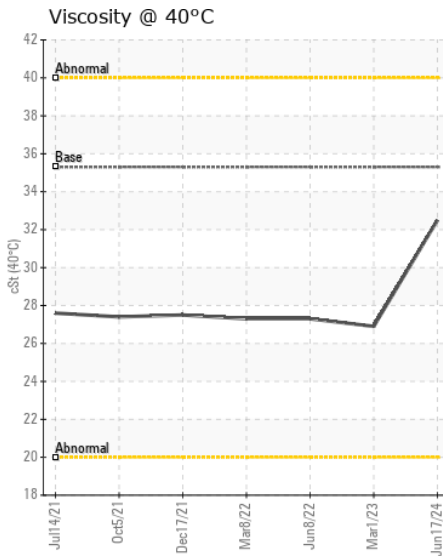
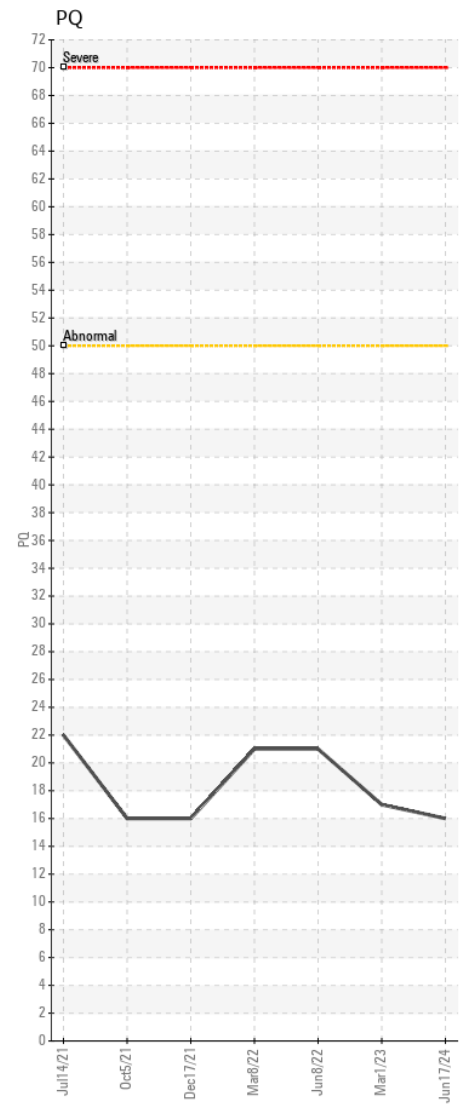
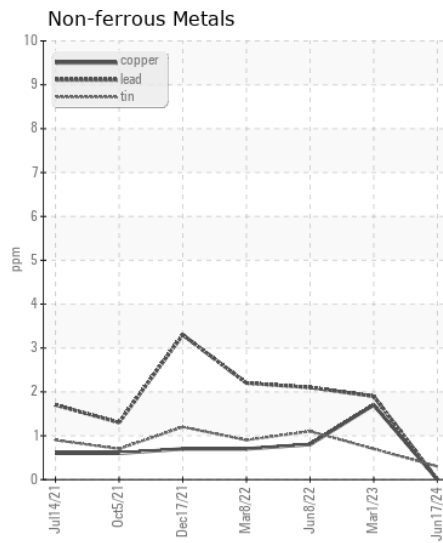
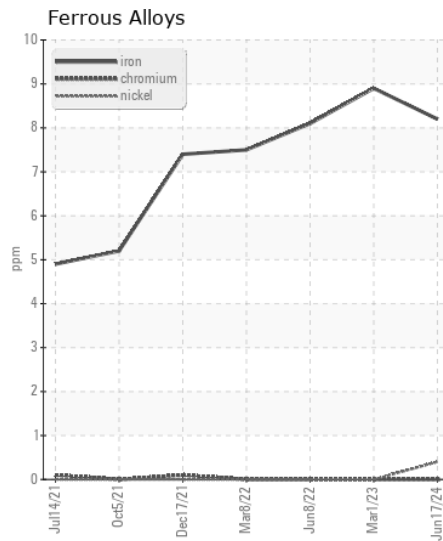
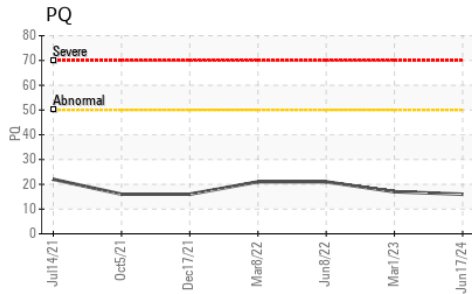
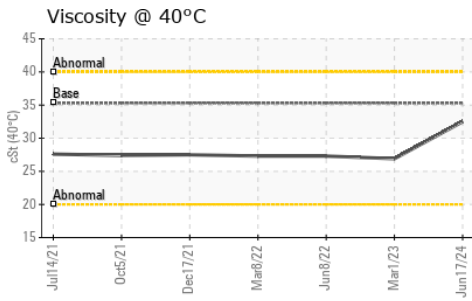
There is no indication of any contamination in the fluid.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >20   | <b>4</b>     | 3     | 3     |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>2</b>     | 2     | <1    |
| Water            |        | WC Method   | >0.1  | <b>NEG</b>   | NEG   | NEG   |
| 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     | >0.1  | <b>NEG</b>   | NEG   | NEG   |

### FLUID CONDITION

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

|             |     |             |      |              |      |      |
|-------------|-----|-------------|------|--------------|------|------|
| Sodium      | ppm | ASTM D5185m |      | <b>3</b>     | 0    | <1   |
| Boron       | ppm | ASTM D5185m | 187  | <b>91</b>    | 71   | 92   |
| Barium      | ppm | ASTM D5185m | 0.0  | <b>0</b>     | 0    | 0    |
| Molybdenum  | ppm | ASTM D5185m | 0.0  | <b>0</b>     | <1   | <1   |
| Manganese   | ppm | ASTM D5185m | 0.0  | <b>&lt;1</b> | <1   | <1   |
| Magnesium   | ppm | ASTM D5185m | 6.8  | <b>8</b>     | 2    | 1    |
| Calcium     | ppm | ASTM D5185m | 215  | <b>178</b>   | 106  | 94   |
| Phosphorus  | ppm | ASTM D5185m | 445  | <b>258</b>   | 177  | 187  |
| Zinc        | ppm | ASTM D5185m | 56   | <b>39</b>    | 22   | 21   |
| Sulfur      | ppm | ASTM D5185m | 1336 | <b>2515</b>  | 1649 | 1595 |
| Visc @ 40°C | cSt | ASTM D445   | 35.3 | <b>32.5</b>  | 26.9 | 27.3 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0221922 **Received** : 02 Jul 2024  
**Lab Number** : 06226469 **Tested** : 03 Jul 2024  
**Unique Number** : 11109962 **Diagnosed** : 03 Jul 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**PATRIOT DEVELOPMENT CORP**  
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 T:  
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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)