



# OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO A45G 342201**  
Component  
**Transmission (Auto)**  
Fluid  
**VOLVO AT 102 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>ML0002791</b>   | ML0000514   | VCP399443   |
| Sample Date    |     | Client Info |           | <b>12 Jun 2024</b> | 08 Feb 2024 | 03 May 2023 |
| Machine Age    | hrs | Client Info |           | <b>10429</b>       | 0           | 8572        |
| Oil Age        | hrs | Client Info |           | <b>2429</b>        | 0           | 0           |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Changed     | N/A         |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | Changed     | N/A         |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## WEAR

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185m | >160 | <b>35</b>    | 31   | 35   |
| Chromium     | ppm    | ASTM D5185m | >5   | <b>0</b>     | 0    | 0    |
| Nickel       | ppm    | ASTM D5185m | >5   | <b>3</b>     | <1   | 4    |
| 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>16</b>    | 12   | 20   |
| Lead         | ppm    | ASTM D5185m | >50  | <b>0</b>     | 0    | 0    |
| Copper       | ppm    | ASTM D5185m | >225 | <b>24</b>    | 11   | 24   |
| Tin          | ppm    | ASTM D5185m | >10  | <b>3</b>     | 1    | 4    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

## CONTAMINATION

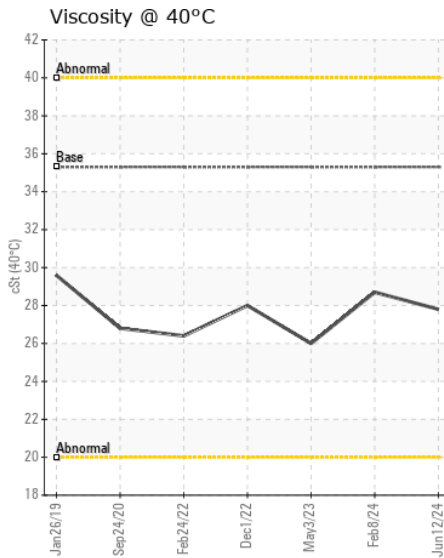
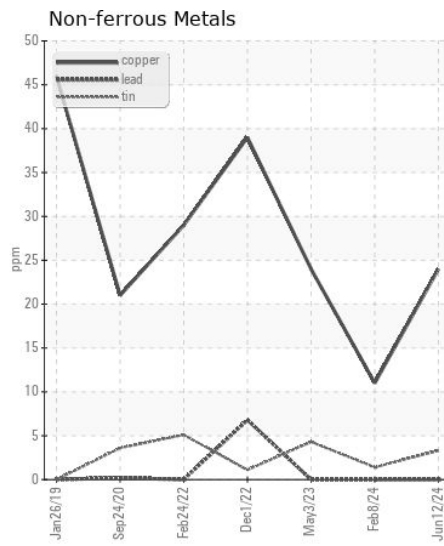
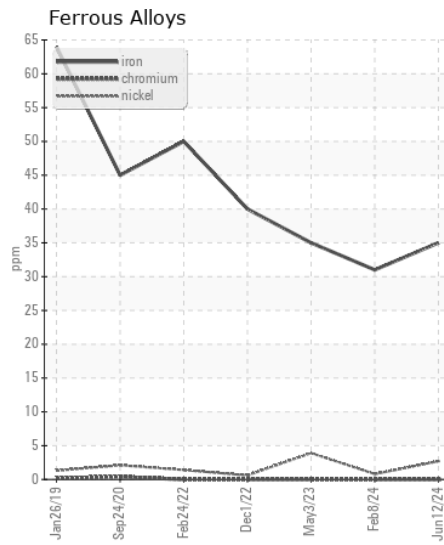
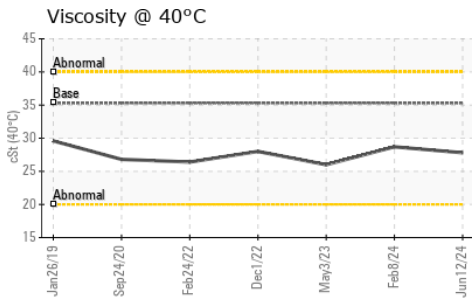
There is no indication of any contamination in the fluid.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >20   | <b>4</b>     | 6     | 4     |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>1</b>     | 0     | 2     |
| 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>4</b>     | 2    | 6    |
| Boron       | ppm | ASTM D5185m | 187  | <b>82</b>    | 89   | 98   |
| Barium      | ppm | ASTM D5185m | 0.0  | <b>0</b>     | 0    | 0    |
| Molybdenum  | ppm | ASTM D5185m | 0.0  | <b>0</b>     | 2    | <1   |
| Manganese   | ppm | ASTM D5185m | 0.0  | <b>&lt;1</b> | <1   | 1    |
| Magnesium   | ppm | ASTM D5185m | 6.8  | <b>&lt;1</b> | 8    | 1    |
| Calcium     | ppm | ASTM D5185m | 215  | <b>74</b>    | 106  | 102  |
| Phosphorus  | ppm | ASTM D5185m | 445  | <b>182</b>   | 200  | 233  |
| Zinc        | ppm | ASTM D5185m | 56   | <b>29</b>    | 13   | 0    |
| Sulfur      | ppm | ASTM D5185m | 1336 | <b>1944</b>  | 1761 | 2427 |
| Visc @ 40°C | cSt | ASTM D445   | 35.3 | <b>27.8</b>  | 28.7 | 26.0 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0002791  
**Lab Number** : 06211001  
**Unique Number** : 11083865  
**Test Package** : CONST

**Received** : 14 Jun 2024  
**Tested** : 18 Jun 2024  
**Diagnosed** : 18 Jun 2024 - Sean Felton

**MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND**  
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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)