



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



Machine Id  
**VOLVO A45G 342044**  
Component  
**Rear Axle**  
Fluid  
**VOLVO SUPER GEAR OIL 75W-80-GO102 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>ML0002782</b>   | ML0000910   | VCP401303   |
| Sample Date    |     | Client Info |           | <b>12 Jun 2024</b> | 29 Mar 2024 | 02 Feb 2023 |
| Machine Age    | hrs | Client Info |           | <b>10882</b>       | 10397       | 8248        |
| Oil Age        | hrs | Client Info |           | <b>8733</b>        | 2149        | 0           |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | N/A         | Changed     |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | N/A         | Not Changed |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

**WEAR**

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185m | >900 | <b>131</b>   | 139  | 379  |
| Chromium     | ppm    | ASTM D5185m | >20  | <b>2</b>     | 2    | 6    |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>0</b>     | <1   | 2    |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | <1   | <1   |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m | >30  | <b>&lt;1</b> | 2    | 2    |
| Lead         | ppm    | ASTM D5185m | >50  | <b>0</b>     | 0    | 0    |
| Copper       | ppm    | ASTM D5185m | >150 | <b>1</b>     | 1    | 3    |
| Tin          | ppm    | ASTM D5185m | >20  | <b>0</b>     | <1   | 0    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | <1   | <1   |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

**CONTAMINATION**

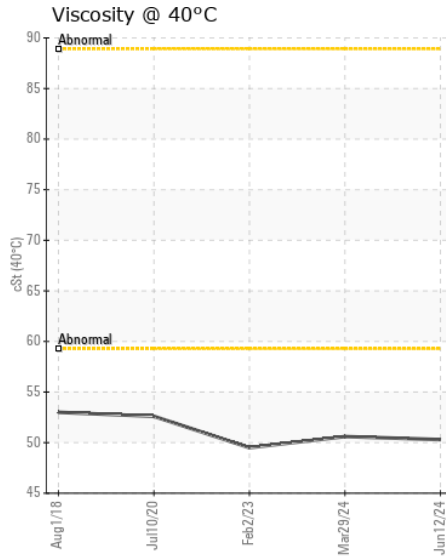
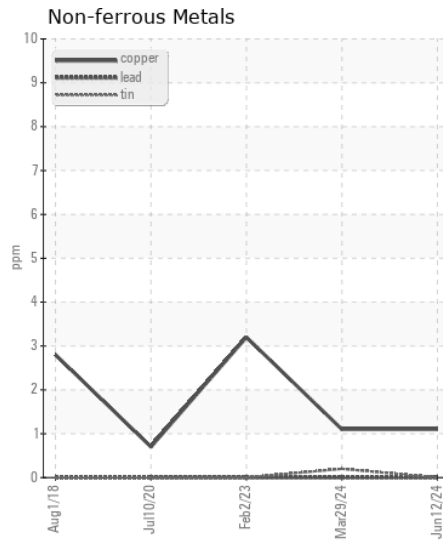
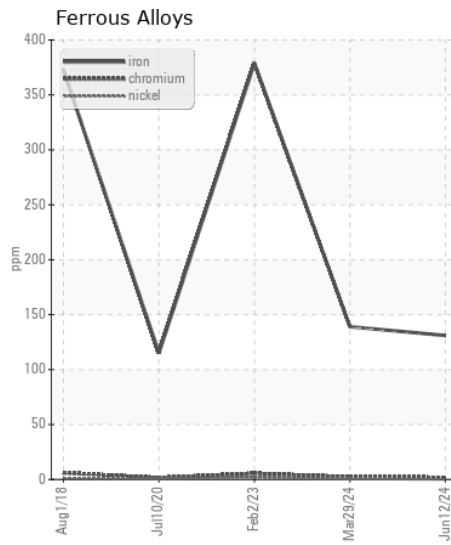
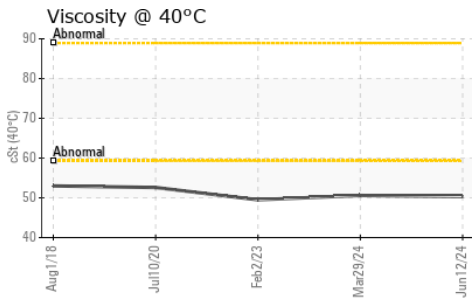
There is no indication of any contamination in the fluid.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >50   | <b>15</b>    | 15    | 11    |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>1</b>     | 2     | 3     |
| Water            |        | WC Method   | >0.2  | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | <b>MODER</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     | >0.2  | <b>NEG</b>   | NEG   | NEG   |

**FLUID CONDITION**

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

|             |     |             |  |              |       |       |
|-------------|-----|-------------|--|--------------|-------|-------|
| Sodium      | ppm | ASTM D5185m |  | <b>2</b>     | 2     | 3     |
| Boron       | ppm | ASTM D5185m |  | <b>201</b>   | 325   | 280   |
| Barium      | ppm | ASTM D5185m |  | <b>0</b>     | 0     | 0     |
| Molybdenum  | ppm | ASTM D5185m |  | <b>&lt;1</b> | 1     | 5     |
| Manganese   | ppm | ASTM D5185m |  | <b>3</b>     | 3     | 9     |
| Magnesium   | ppm | ASTM D5185m |  | <b>&lt;1</b> | 2     | 1     |
| Calcium     | ppm | ASTM D5185m |  | <b>18</b>    | 23    | 45    |
| Phosphorus  | ppm | ASTM D5185m |  | <b>2163</b>  | 2393  | 2347  |
| Zinc        | ppm | ASTM D5185m |  | <b>37</b>    | 12    | 29    |
| Sulfur      | ppm | ASTM D5185m |  | <b>28579</b> | 30263 | 24815 |
| Visc @ 40°C | cSt | ASTM D445   |  | <b>50.3</b>  | 50.6  | 49.5  |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0002782  
**Lab Number** : 06210988  
**Unique Number** : 11083852  
**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)