



# OIL ANALYSIS REPORT

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

Machine Id  
**VOLVO A30G#301 (S/N 740069)**  
 Component  
**Brake Cooling System**  
 Fluid  
**TRANSAXLE OIL (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>TLY0002312</b>  | TLY0001924  | TLY0001491  |
| Sample Date    |     | Client Info |           | <b>20 Jun 2024</b> | 30 Oct 2023 | 04 Apr 2023 |
| Machine Age    | hrs | Client Info |           | <b>7874</b>        | 7291        | 6708        |
| Oil Age        | hrs | Client Info |           | <b>7291</b>        | 1291        | 2700        |
| Filter Age     | hrs | Client Info |           | <b>7291</b>        | 1291        | 2700        |
| Oil Changed    |     | Client Info |           | <b>Not Changed</b> | Not Changed | Not Changed |
| Filter Changed |     | Client Info |           | <b>Not Changed</b> | Not Changed | Not Changed |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## WEAR

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185m | >200 | <b>20</b>    | 10   | 10   |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | <1   | <1   |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>0</b>     | 0    | 0    |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | <1   | <1   |
| Silver       | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m |      | <b>2</b>     | 4    | 4    |
| Lead         | ppm    | ASTM D5185m |      | <b>1</b>     | <1   | <1   |
| Copper       | ppm    | ASTM D5185m |      | <b>17</b>    | 5    | 5    |
| Tin          | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | <1   | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

## CONTAMINATION

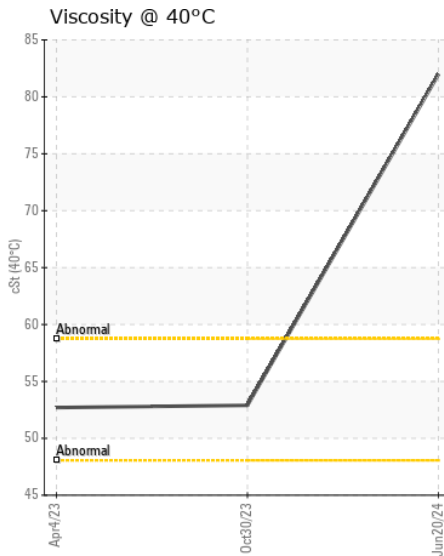
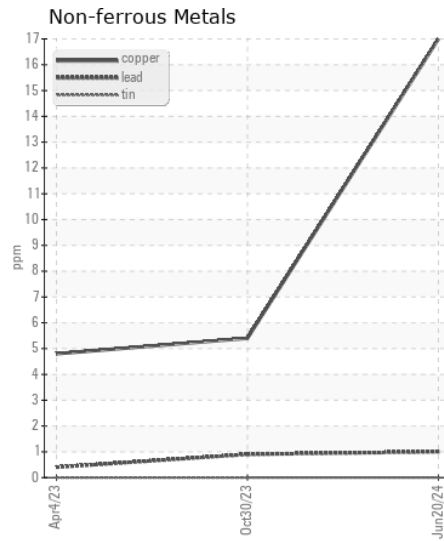
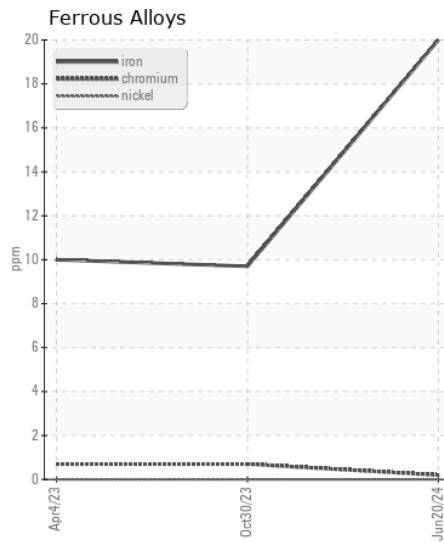
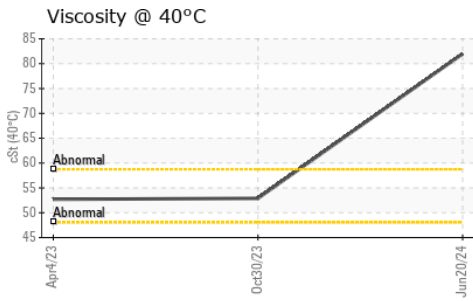
There is no indication of any contamination in the fluid.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m |       | <b>8</b>     | 10    | 9     |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>&lt;1</b> | 0     | 0     |
| Water            |        | WC Method   | >0.2  | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | LIGHT | 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>3</b>     | 3    | 2    |
| Boron       | ppm | ASTM D5185m | 160  | <b>43</b>    | 9    | 13   |
| Barium      | ppm | ASTM D5185m | 10   | <b>0</b>     | 0    | 0    |
| Molybdenum  | ppm | ASTM D5185m | 25   | <b>9</b>     | 2    | 3    |
| Manganese   | ppm | ASTM D5185m |      | <b>&lt;1</b> | 0    | <1   |
| Magnesium   | ppm | ASTM D5185m | 12   | <b>77</b>    | 14   | 23   |
| Calcium     | ppm | ASTM D5185m | 3750 | <b>2639</b>  | 770  | 793  |
| Phosphorus  | ppm | ASTM D5185m | 1200 | <b>965</b>   | 490  | 540  |
| Zinc        | ppm | ASTM D5185m | 1500 | <b>1086</b>  | 621  | 633  |
| Sulfur      | ppm | ASTM D5185m | 6000 | <b>4948</b>  | 5183 | 7111 |
| Visc @ 40°C | cSt | ASTM D445   |      | <b>81.98</b> | 52.9 | 52.7 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TLY0002312  
**Lab Number** : 06221899  
**Unique Number** : 11100096  
**Test Package** : CONST  
**Received** : 26 Jun 2024  
**Tested** : 01 Jul 2024  
**Diagnosed** : 01 Jul 2024 - Jonathan Hester

**GAINES & COMPANY**  
 112 WESTMINSTER RD  
 REISTERSTOWN, MD  
 US 21136

Contact: LANCE TANCRAITOR  
 ltancraitor@gainesandco.com  
 T: (410)833-9833

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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