



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[661201]**  
Machine Id  
**VOLVO A40G 342555**  
Component  
**Front Axle**  
Fluid  
**VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>VCP439102</b>   | VCP406001   | VCP350936   |
| Sample Date    |     | Client Info |           | <b>02 Feb 2024</b> | 21 Apr 2023 | 07 Jun 2022 |
| Machine Age    | hrs | Client Info |           | <b>11136</b>       | 9562        | 7678        |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Not Changd  | Not Changd  |
| 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 | >900 | <b>410</b>   | 73    | 54   |
| Chromium     | ppm    | ASTM D5185m | >20  | <b>4</b>     | 1     | <1   |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>4</b>     | 0     | 0    |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0     | 0    |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 0     | <1   |
| Aluminum     | ppm    | ASTM D5185m | >30  | <b>19</b>    | 0     | 0    |
| Lead         | ppm    | ASTM D5185m | >50  | <b>&lt;1</b> | 0     | 0    |
| Copper       | ppm    | ASTM D5185m | >150 | <b>4</b>     | 3     | 2    |
| Tin          | ppm    | ASTM D5185m | >20  | <b>0</b>     | 0     | 0    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0     | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | MODER | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE  | NONE |

### CONTAMINATION

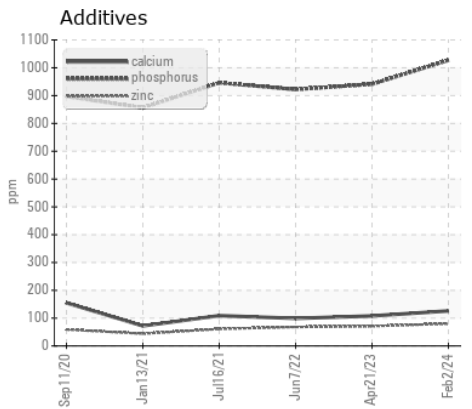
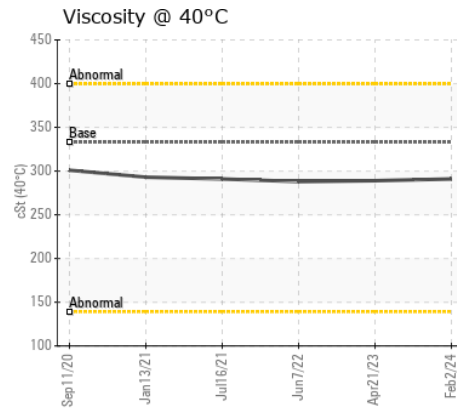
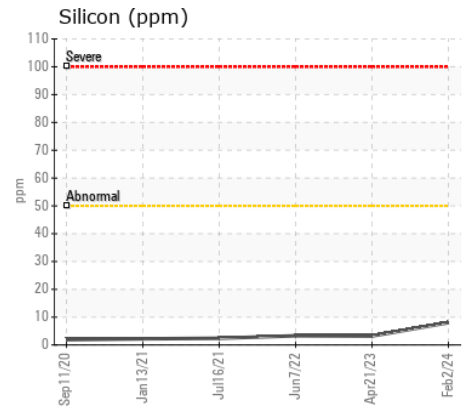
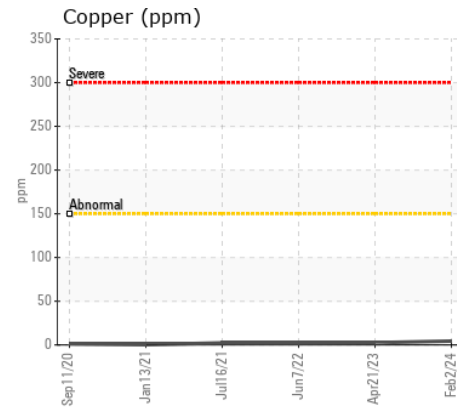
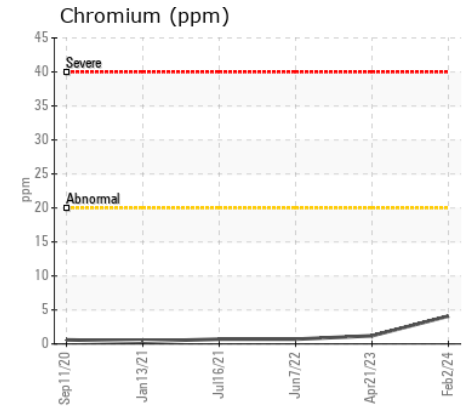
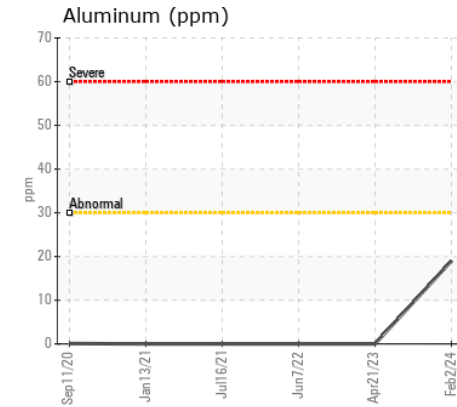
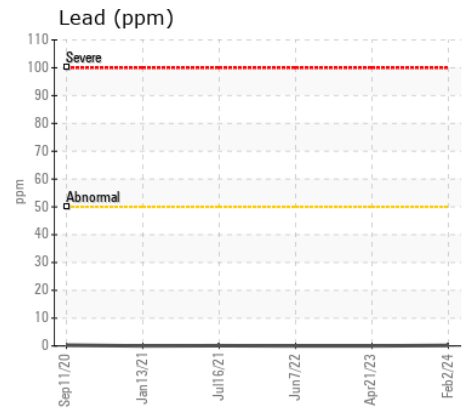
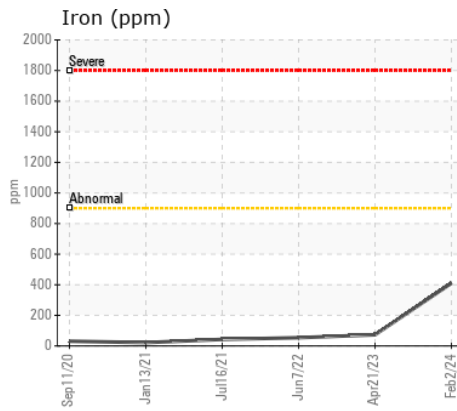
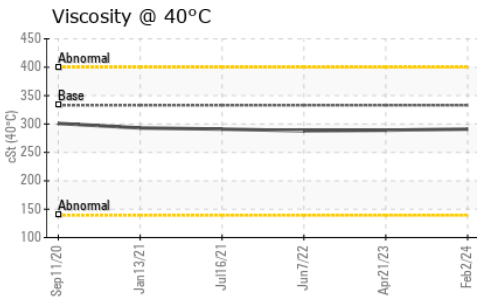
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >50   | <b>8</b>     | 3     | 3     |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>2</b>     | 0     | 1     |
| 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>  | 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 oil is acceptable for the time in service.

|             |     |             |       |              |       |       |
|-------------|-----|-------------|-------|--------------|-------|-------|
| Sodium      | ppm | ASTM D5185m |       | <b>3</b>     | <1    | 0     |
| Boron       | ppm | ASTM D5185m | 111   | <b>153</b>   | 139   | 173   |
| Barium      | ppm | ASTM D5185m | 0.0   | <b>0</b>     | 0     | 2     |
| Molybdenum  | ppm | ASTM D5185m | 0.9   | <b>4</b>     | 3     | 3     |
| Manganese   | ppm | ASTM D5185m | 0.0   | <b>6</b>     | 4     | 2     |
| Magnesium   | ppm | ASTM D5185m | 39    | <b>18</b>    | 19    | 16    |
| Calcium     | ppm | ASTM D5185m | 93    | <b>126</b>   | 108   | 99    |
| Phosphorus  | ppm | ASTM D5185m | 920   | <b>1027</b>  | 941   | 922   |
| Zinc        | ppm | ASTM D5185m | 104   | <b>80</b>    | 71    | 68    |
| Sulfur      | ppm | ASTM D5185m | 20179 | <b>24963</b> | 28485 | 21834 |
| Visc @ 40°C | cSt | ASTM D445   | 333   | <b>291</b>   | 289   | 288   |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP439102  
**Lab Number** : 06084372  
**Unique Number** : 10871817  
**Test Package** : MOB 1

**Received** : 08 Feb 2024  
**Tested** : 09 Feb 2024  
**Diagnosed** : 09 Feb 2024 - Wes Davis

**ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC**  
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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)