



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[443773]**  
Machine Id  
**VOLVO A40G 342315**  
Component  
**Wet Disc Brake**  
Fluid  
**VOLVO WB 102 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>VCP441074</b>   | VCP329515   | VCP301941   |
| Sample Date    |     | Client Info |           | <b>01 Feb 2024</b> | 16 Dec 2021 | 26 Mar 2021 |
| Machine Age    | hrs | Client Info |           | <b>7233</b>        | 3976        | 3215        |
| 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>     | N/A         | Not Changd  |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | Changed     | Not Changd  |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | ABNORMAL    |

### WEAR

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185m | >20  | <b>19</b>    | 23   | ▲ 51 |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | <1   | 2    |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>3</b>     | 2    | 3    |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | <1   | <1   |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | <1   |
| Aluminum     | ppm    | ASTM D5185m | >10  | <b>0</b>     | 2    | 0    |
| Lead         | ppm    | ASTM D5185m | >10  | <b>0</b>     | 4    | <1   |
| Copper       | ppm    | ASTM D5185m | >75  | <b>128</b>   | 104  | 62   |
| Tin          | ppm    | ASTM D5185m | >10  | <b>0</b>     | 0    | 0    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | <1   |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

### CONTAMINATION

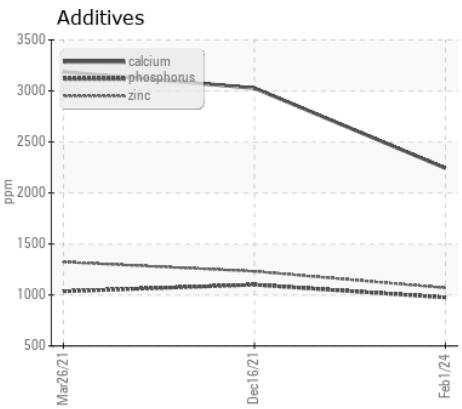
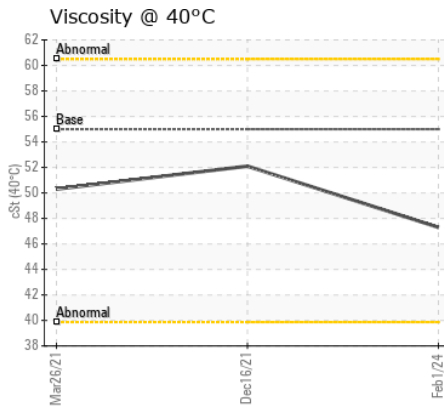
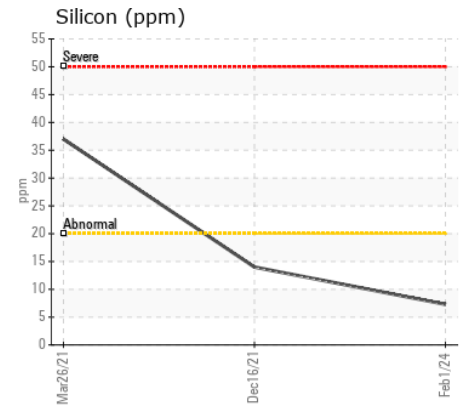
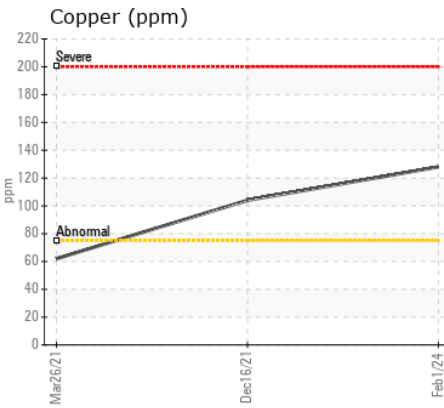
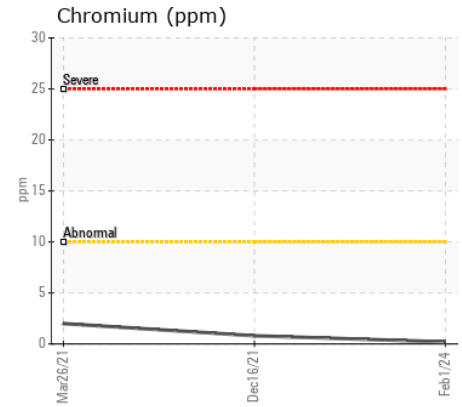
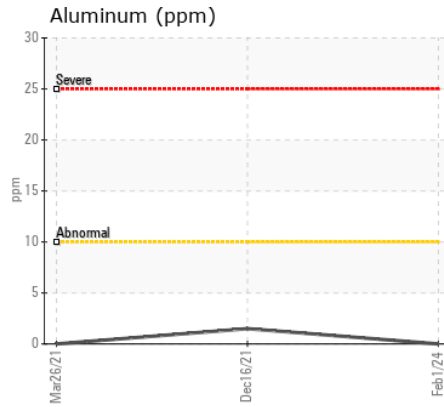
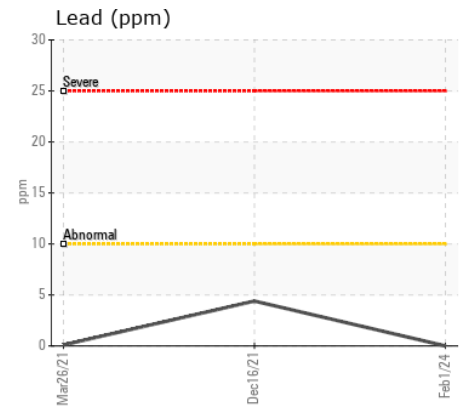
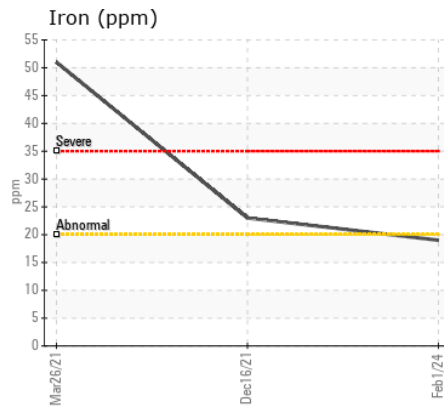
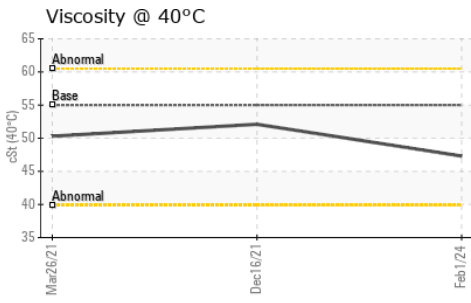
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |         |
|------------------|--------|-------------|-------|--------------|-------|---------|
| Silicon          | ppm    | ASTM D5185m | >20   | <b>7</b>     | 14    | ▲ 37    |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>0</b>     | 0     | <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>  | LIGHT | ▲ MODER |
| 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 oil is acceptable for the time in service.

|             |     |             |    |              |      |      |
|-------------|-----|-------------|----|--------------|------|------|
| Sodium      | ppm | ASTM D5185m |    | <b>2</b>     | 2    | 2    |
| Boron       | ppm | ASTM D5185m |    | <b>35</b>    | 50   | 57   |
| Barium      | ppm | ASTM D5185m |    | <b>&lt;1</b> | 0    | 0    |
| Molybdenum  | ppm | ASTM D5185m |    | <b>2</b>     | 5    | 5    |
| Manganese   | ppm | ASTM D5185m |    | <b>1</b>     | <1   | 1    |
| Magnesium   | ppm | ASTM D5185m |    | <b>19</b>    | 32   | 51   |
| Calcium     | ppm | ASTM D5185m |    | <b>2243</b>  | 3028 | 3187 |
| Phosphorus  | ppm | ASTM D5185m |    | <b>975</b>   | 1100 | 1035 |
| Zinc        | ppm | ASTM D5185m |    | <b>1069</b>  | 1231 | 1323 |
| Sulfur      | ppm | ASTM D5185m |    | <b>3088</b>  | 3337 | 3044 |
| Visc @ 40°C | cSt | ASTM D445   | 55 | <b>47.3</b>  | 52.1 | 50.3 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP441074  
**Lab Number** : 06083934  
**Unique Number** : 10871379  
**Test Package** : MOB 1

**Received** : 08 Feb 2024  
**Tested** : 09 Feb 2024  
**Diagnosed** : 11 Feb 2024 - Don Baldrige

**ALTA EQUIPMENT COMPANY**  
 5151 DR MARTIN LUTHER KING BLVD  
 FORT MYERS, FL  
 US 33905  
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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)