



# VOLVO

## OIL ANALYSIS REPORT

WEAR

**ABNORMAL**

CONTAMINATION

**NORMAL**

FLUID CONDITION

**NORMAL**



Area  
**[SPM647543-10]**  
 Machine Id  
**VOLVO A45G 352374**  
 Component  
**Wet Disc Brake**  
 Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

| Test           | UOM | Method      | Limit/Abn | Current     | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number  |     | Client Info |           | VCP436135   | ---      | ---      |
| Sample Date    |     | Client Info |           | 09 Jan 2024 | ---      | ---      |
| Machine Age    | hrs | Client Info |           | 4085        | ---      | ---      |
| Oil Age        | hrs | Client Info |           | 0           | ---      | ---      |
| Filter Age     | hrs | Client Info |           | 0           | ---      | ---      |
| Oil Changed    |     | Client Info |           | N/A         | ---      | ---      |
| Filter Changed |     | Client Info |           | Changed     | ---      | ---      |
| Sample Status  |     |             |           | ABNORMAL    | ---      | ---      |

### WEAR

The iron level is abnormal. The copper level is abnormal.

|              |        |             |      |       |     |     |
|--------------|--------|-------------|------|-------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >20  | ▲ 26  | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >10  | <1    | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >10  | 4     | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | 0     | --- | --- |
| Silver       | ppm    | ASTM D5185m |      | 0     | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >10  | 2     | --- | --- |
| Lead         | ppm    | ASTM D5185m | >10  | 0     | --- | --- |
| Copper       | ppm    | ASTM D5185m | >75  | ▲ 181 | --- | --- |
| Tin          | ppm    | ASTM D5185m | >10  | 0     | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |      | 0     | --- | --- |
| White Metal  | scalar | *Visual     | NONE | NONE  | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE | NONE  | --- | --- |

### CONTAMINATION

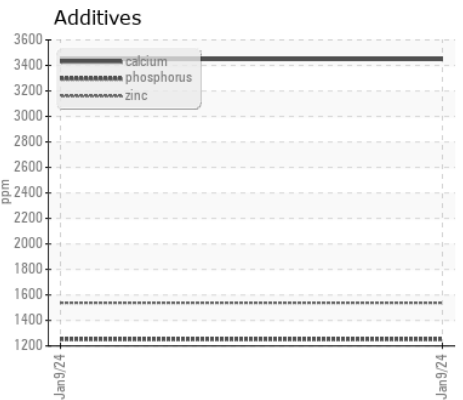
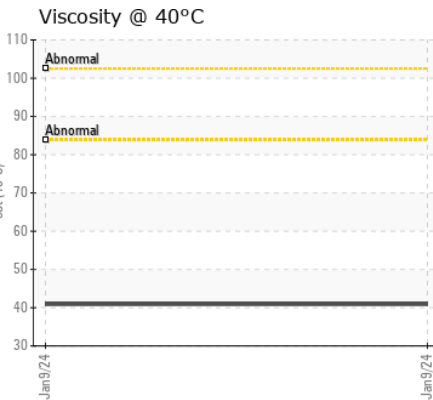
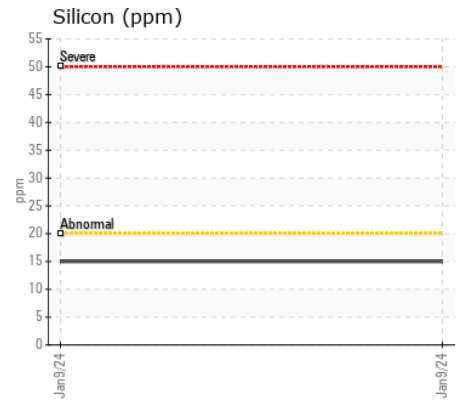
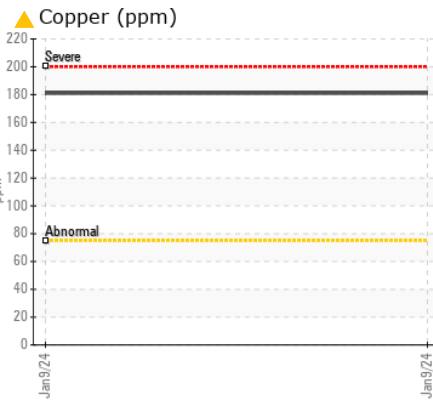
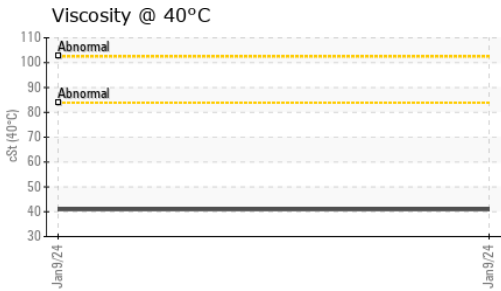
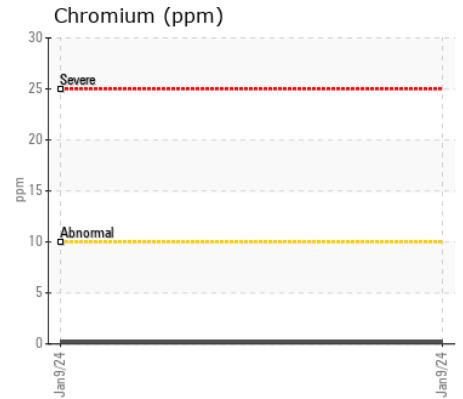
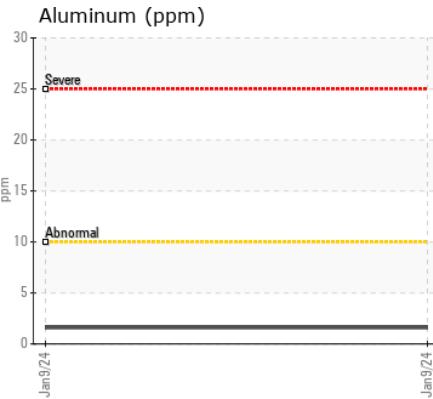
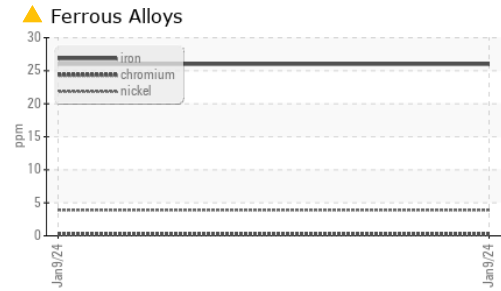
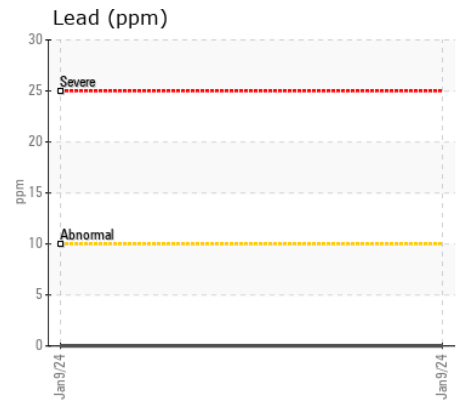
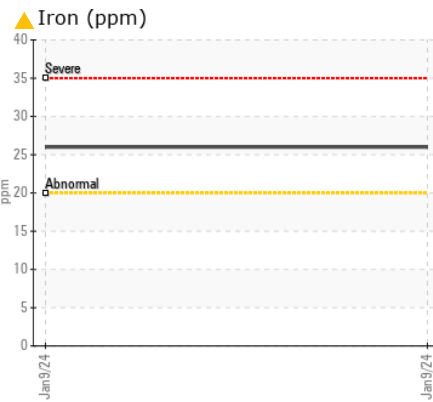
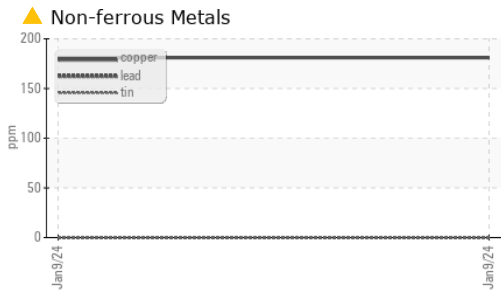
There is no indication of any contamination in the oil.

|                  |        |             |       |       |     |     |
|------------------|--------|-------------|-------|-------|-----|-----|
| Silicon          | ppm    | ASTM D5185m | >20   | 15    | --- | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | 2     | --- | --- |
| Water            |        | WC Method   | >0.1  | NEG   | --- | --- |
| Silt             | scalar | *Visual     | NONE  | NONE  | --- | --- |
| Debris           | scalar | *Visual     | NONE  | NONE  | --- | --- |
| Sand/Dirt        | scalar | *Visual     | NONE  | NONE  | --- | --- |
| Appearance       | scalar | *Visual     | NORML | NORML | --- | --- |
| Odor             | scalar | *Visual     | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual     | >0.1  | NEG   | --- | --- |

### FLUID CONDITION

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

|             |     |             |  |      |     |     |
|-------------|-----|-------------|--|------|-----|-----|
| Sodium      | ppm | ASTM D5185m |  | 4    | --- | --- |
| Boron       | ppm | ASTM D5185m |  | 81   | --- | --- |
| Barium      | ppm | ASTM D5185m |  | 0    | --- | --- |
| Molybdenum  | ppm | ASTM D5185m |  | 0    | --- | --- |
| Manganese   | ppm | ASTM D5185m |  | <1   | --- | --- |
| Magnesium   | ppm | ASTM D5185m |  | 7    | --- | --- |
| Calcium     | ppm | ASTM D5185m |  | 3448 | --- | --- |
| Phosphorus  | ppm | ASTM D5185m |  | 1253 | --- | --- |
| Zinc        | ppm | ASTM D5185m |  | 1538 | --- | --- |
| Sulfur      | ppm | ASTM D5185m |  | 5262 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445   |  | 40.9 | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP436135 **Received** : 10 Jan 2024  
**Lab Number** : 06056991 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10822940 **Diagnostician** : Sean Felton  
**Test Package** : MOB 1

**ALTA EQUIPMENT COMPANY**  
 8750 PHILIPS HWY  
 JACKSONVILLE, FL  
 US 32256  
 Contact: SHAWN NORTHCRAFT  
 shawn.northcraft@altg.com  
 T: (904)737-6000  
 F: (904)737-1260

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)