



# VOLVO

## OIL ANALYSIS REPORT

|                 |          |
|-----------------|----------|
| WEAR            | NORMAL   |
| CONTAMINATION   | ABNORMAL |
| FLUID CONDITION | NORMAL   |

Area

[601191]

Machine Id

VOLVO EC400FL5 410082

Component

Hydraulic System

Fluid

{not provided} (--- GAL)

### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

| Test           | UOM | Method      | Limit/Abn | Current     | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number  |     | Client Info |           | VCP450834   | ---      | ---      |
| Sample Date    |     | Client Info |           | 12 Jul 2024 | ---      | ---      |
| Machine Age    | hrs | Client Info |           | 5           | ---      | ---      |
| Oil Age        | hrs | Client Info |           | 5           | ---      | ---      |
| Filter Age     | hrs | Client Info |           | 0           | ---      | ---      |
| Oil Changed    |     | Client Info |           | Not Changd  | ---      | ---      |
| Filter Changed |     | Client Info |           | N/A         | ---      | ---      |
| Sample Status  |     |             |           | ABNORMAL    | ---      | ---      |

### WEAR

All component wear rates are normal.

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

### CONTAMINATION

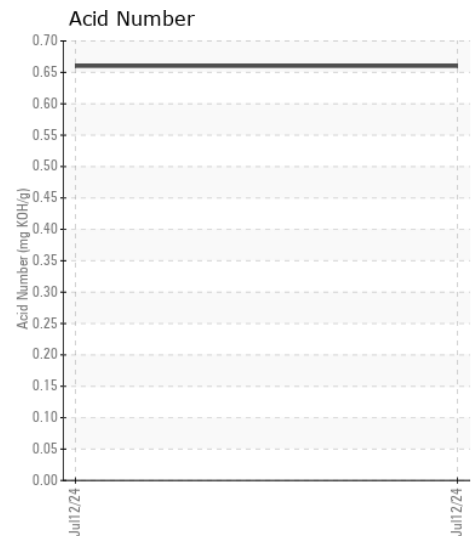
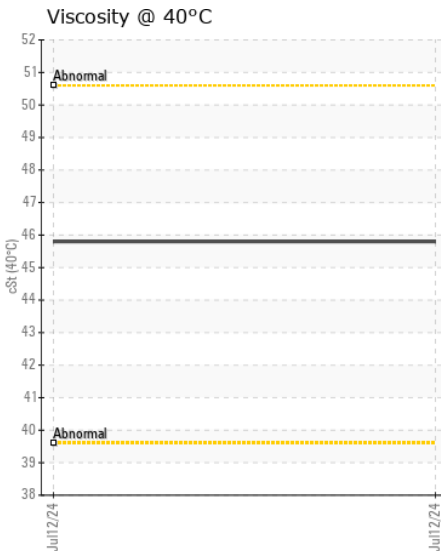
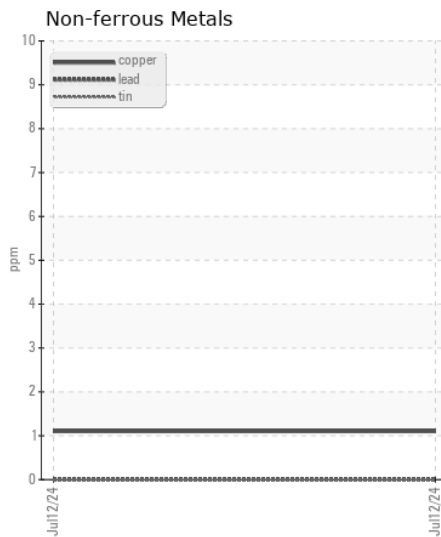
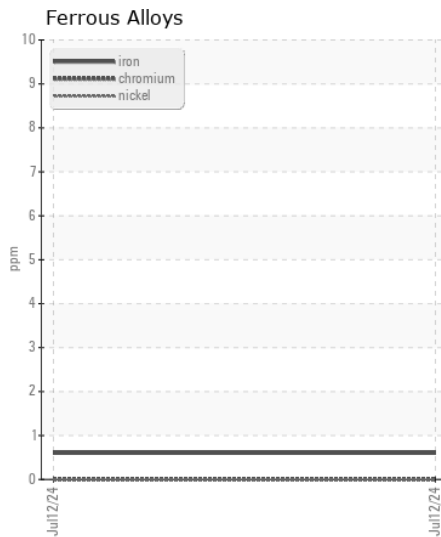
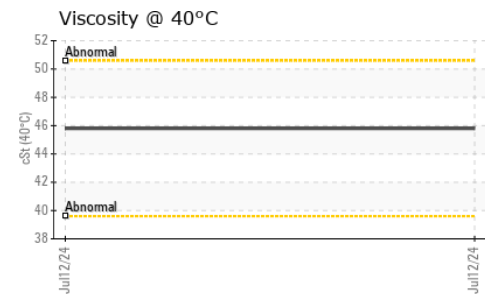
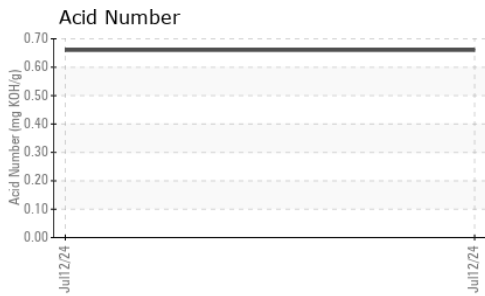
Moderate concentration of visible dirt/debris present in the oil.

|                  |        |             |       |         |     |     |
|------------------|--------|-------------|-------|---------|-----|-----|
| Silicon          | ppm    | ASTM D5185m | >20   | <1      | --- | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | 0       | --- | --- |
| Water            |        | WC Method   | >0.1  | NEG     | --- | --- |
| Silt             | scalar | *Visual     | NONE  | NONE    | --- | --- |
| Debris           | scalar | *Visual     | NONE  | ▲ MODER | --- | --- |
| 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

|                  |          |             |  |      |     |     |
|------------------|----------|-------------|--|------|-----|-----|
| Sodium           | ppm      | ASTM D5185m |  | <1   | --- | --- |
| Boron            | ppm      | ASTM D5185m |  | 0    | --- | --- |
| Barium           | ppm      | ASTM D5185m |  | 0    | --- | --- |
| Molybdenum       | ppm      | ASTM D5185m |  | 0    | --- | --- |
| Manganese        | ppm      | ASTM D5185m |  | 0    | --- | --- |
| Magnesium        | ppm      | ASTM D5185m |  | <1   | --- | --- |
| Calcium          | ppm      | ASTM D5185m |  | 81   | --- | --- |
| Phosphorus       | ppm      | ASTM D5185m |  | 412  | --- | --- |
| Zinc             | ppm      | ASTM D5185m |  | 541  | --- | --- |
| Sulfur           | ppm      | ASTM D5185m |  | 1223 | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045  |  | 0.66 | --- | --- |
| Visc @ 40°C      | cSt      | ASTM D445   |  | 45.8 | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP450834  
**Lab Number** : 06239098  
**Unique Number** : 11127932  
**Test Package** : MOB 2

**Received** : 17 Jul 2024  
**Tested** : 19 Jul 2024  
**Diagnosed** : 19 Jul 2024 - Don Baldrige

**ALTA EQUIPMENT COMPANY - METRO WEST**  
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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)