



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[675838 HERC RENTALS]**  
 Machine Id  
**VOLVO EC350EL 314592**  
 Component  
**Rear Left Final Drive**  
 Fluid  
**VOLVO PREMIUM GEAR OIL 80W-90 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>VCP437884</b>   | ---      | ---      |
| Sample Date    |     | Client Info |           | <b>08 Mar 2024</b> | ---      | ---      |
| Machine Age    | hrs | Client Info |           | <b>1584</b>        | ---      | ---      |
| Oil Age        | hrs | Client Info |           | <b>1584</b>        | ---      | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | ---      | ---      |
| Filter Changed |     | Client Info |           | <b>Not Changed</b> | ---      | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ---      | ---      |

### WEAR

All component wear rates are normal.

|              |        |             |       |              |     |     |
|--------------|--------|-------------|-------|--------------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >1200 | <b>433</b>   | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >10   | <b>11</b>    | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >10   | <b>&lt;1</b> | --- | --- |
| Titanium     | ppm    | ASTM D5185m |       | <b>&lt;1</b> | --- | --- |
| Silver       | ppm    | ASTM D5185m |       | <b>0</b>     | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >100  | <b>5</b>     | --- | --- |
| Lead         | ppm    | ASTM D5185m | >10   | <b>0</b>     | --- | --- |
| Copper       | ppm    | ASTM D5185m | >200  | <b>&lt;1</b> | --- | --- |
| Tin          | ppm    | ASTM D5185m | >10   | <b>0</b>     | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |       | <b>&lt;1</b> | --- | --- |
| White Metal  | scalar | *Visual     | NONE  | <b>NONE</b>  | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE  | <b>NONE</b>  | --- | --- |

### CONTAMINATION

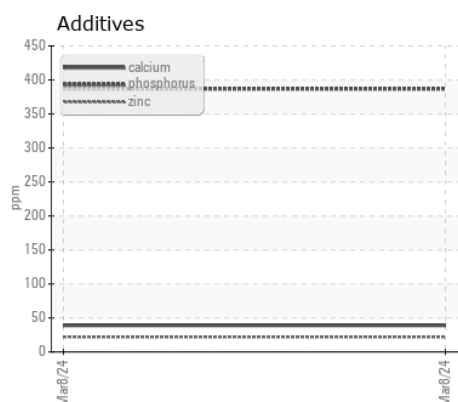
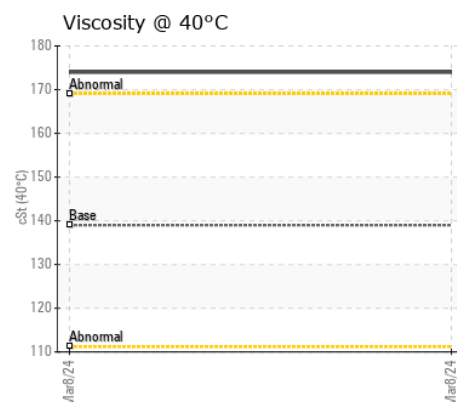
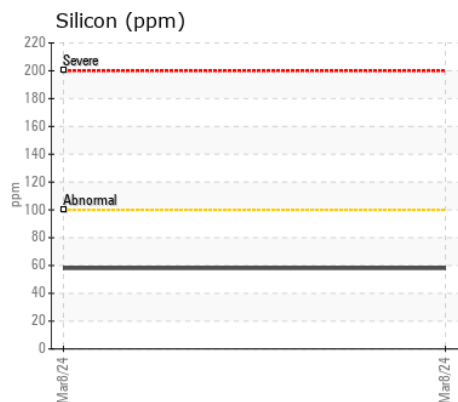
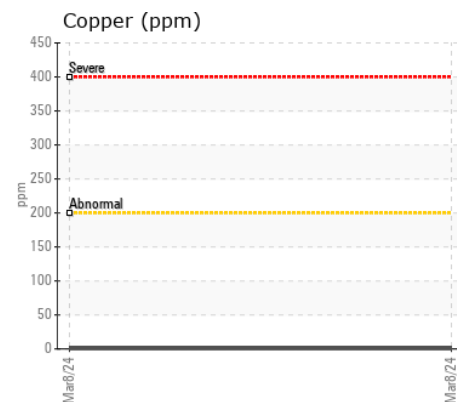
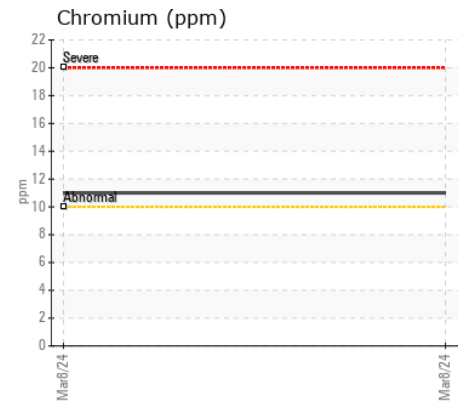
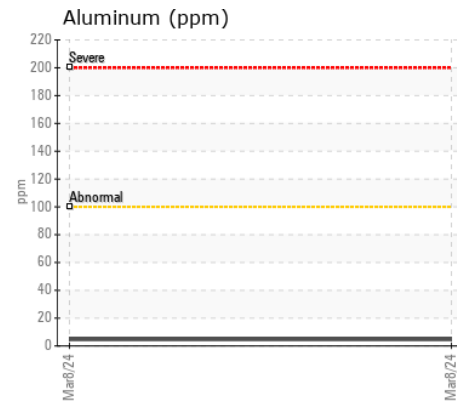
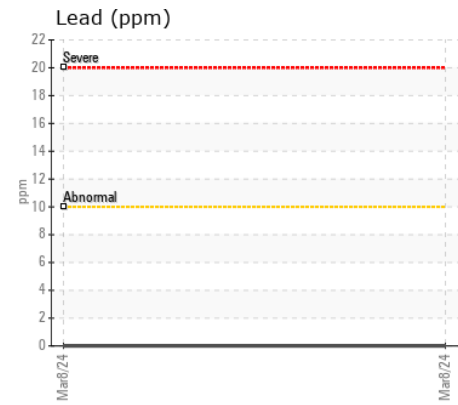
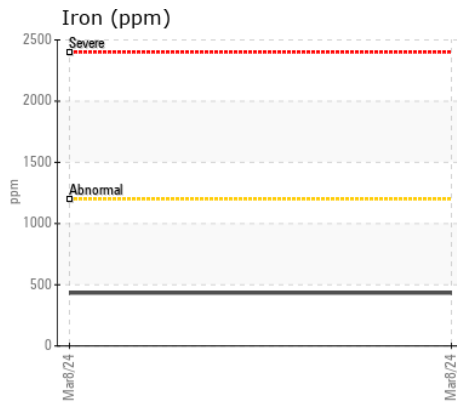
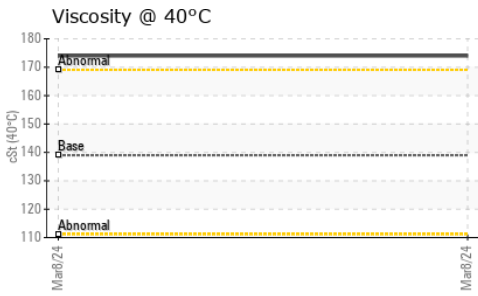
There is no indication of any contamination in the oil.

|                  |        |             |       |              |     |     |
|------------------|--------|-------------|-------|--------------|-----|-----|
| Silicon          | ppm    | ASTM D5185m | >100  | <b>58</b>    | --- | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>0</b>     | --- | --- |
| Water            |        | WC Method   | >0.2  | <b>NEG</b>   | --- | --- |
| Silt             | scalar | *Visual     | NONE  | <b>MODER</b> | --- | --- |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | --- | --- |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | --- | --- |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | --- | --- |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | --- | --- |
| Emulsified Water | scalar | *Visual     | >0.2  | <b>NEG</b>   | --- | --- |

### FLUID CONDITION

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

|             |     |             |       |              |     |     |
|-------------|-----|-------------|-------|--------------|-----|-----|
| Sodium      | ppm | ASTM D5185m |       | <b>1</b>     | --- | --- |
| Boron       | ppm | ASTM D5185m | 379   | <b>3</b>     | --- | --- |
| Barium      | ppm | ASTM D5185m | 0.0   | <b>6</b>     | --- | --- |
| Molybdenum  | ppm | ASTM D5185m | 0.8   | <b>1</b>     | --- | --- |
| Manganese   | ppm | ASTM D5185m | 0.0   | <b>6</b>     | --- | --- |
| Magnesium   | ppm | ASTM D5185m | 31    | <b>2</b>     | --- | --- |
| Calcium     | ppm | ASTM D5185m | 38    | <b>39</b>    | --- | --- |
| Phosphorus  | ppm | ASTM D5185m | 1077  | <b>387</b>   | --- | --- |
| Zinc        | ppm | ASTM D5185m | 46    | <b>22</b>    | --- | --- |
| Sulfur      | ppm | ASTM D5185m | 23526 | <b>21614</b> | --- | --- |
| Visc @ 40°C | cSt | ASTM D445   | 139   | <b>174</b>   | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP437884  
**Lab Number** : 06146232  
**Unique Number** : 10976310  
**Test Package** : MOB 1

**Received** : 11 Apr 2024  
**Tested** : 12 Apr 2024  
**Diagnosed** : 15 Apr 2024 - Don Baldrige

**ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC**  
 8418 PALM RIVER ROAD  
 TAMPA, FL  
 US 33619  
 Contact: JOHN FARDELLA  
 john.fardella@altg.com  
 T: (813)630-0077  
 F: (813)630-2233

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)