



# VOLVO

## OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO EC250EL 314086**  
Component  
**Swing Drive**  
Fluid  
**VOLVO (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number  |     | Client Info |           | <b>VCP436459</b>   | VCP407673   | ---      |
| Sample Date    |     | Client Info |           | <b>10 Apr 2024</b> | 24 May 2023 | ---      |
| Machine Age    | hrs | Client Info |           | <b>5092</b>        | 4006        | ---      |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | 0           | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | ---      |
| Oil Changed    |     | Client Info |           | <b>Not Changed</b> | Not Changed | ---      |
| Filter Changed |     | Client Info |           | <b>Not Changed</b> | Not Changed | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | ---      |

### WEAR

All component wear rates are normal.

|              |        |             |       |              |      |     |
|--------------|--------|-------------|-------|--------------|------|-----|
| Iron         | ppm    | ASTM D5185m | >1200 | <b>321</b>   | 901  | --- |
| Chromium     | ppm    | ASTM D5185m | >10   | <b>3</b>     | 12   | --- |
| Nickel       | ppm    | ASTM D5185m | >10   | <b>0</b>     | 0    | --- |
| Titanium     | ppm    | ASTM D5185m |       | <b>0</b>     | <1   | --- |
| Silver       | ppm    | ASTM D5185m |       | <b>0</b>     | 0    | --- |
| Aluminum     | ppm    | ASTM D5185m | >25   | <b>&lt;1</b> | 1    | --- |
| Lead         | ppm    | ASTM D5185m | >50   | <b>0</b>     | 0    | --- |
| Copper       | ppm    | ASTM D5185m | >50   | <b>9</b>     | 25   | --- |
| Tin          | ppm    | ASTM D5185m | >10   | <b>0</b>     | 0    | --- |
| Vanadium     | ppm    | ASTM D5185m |       | <b>0</b>     | 0    | --- |
| White Metal  | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE | --- |
| Yellow Metal | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE | --- |

### CONTAMINATION

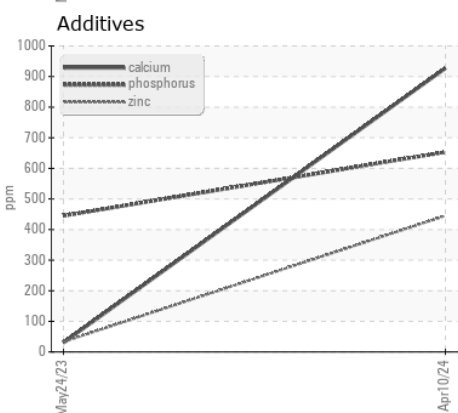
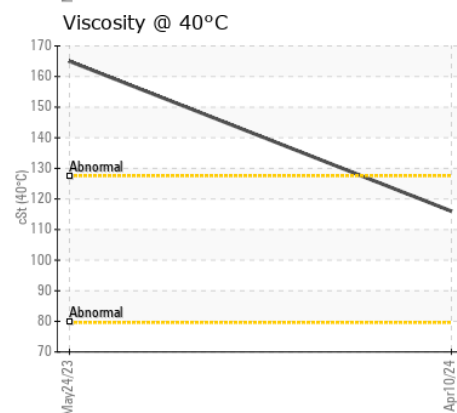
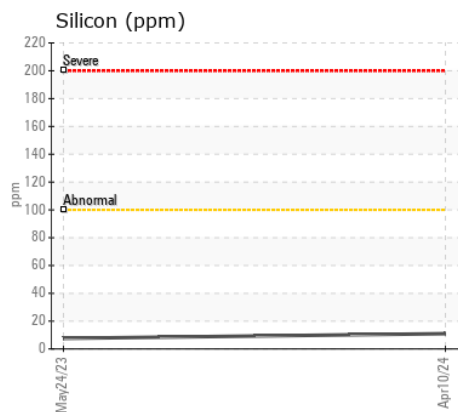
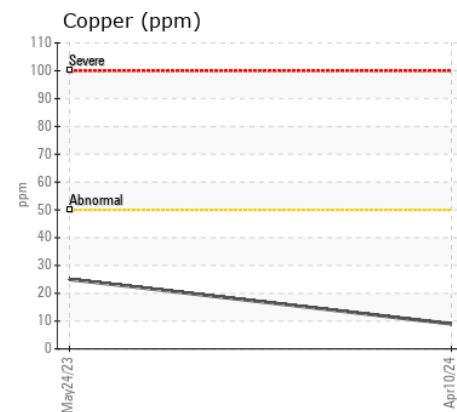
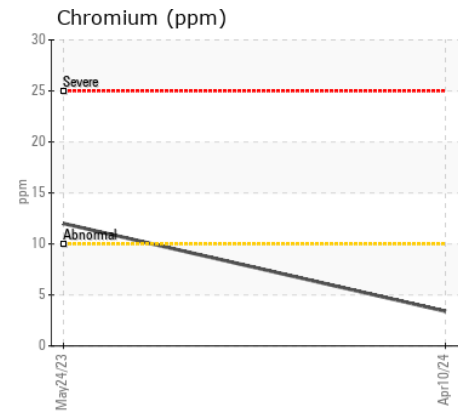
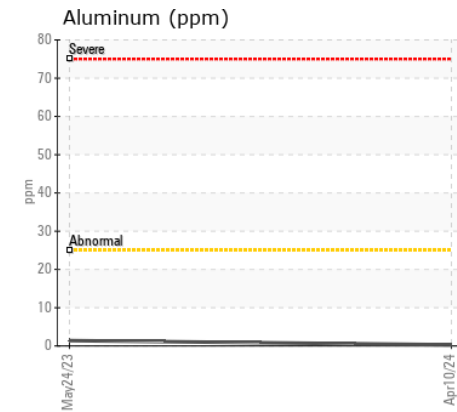
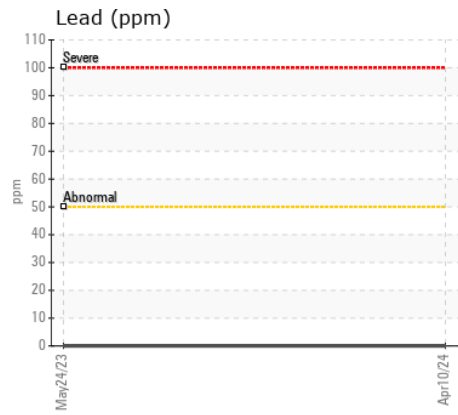
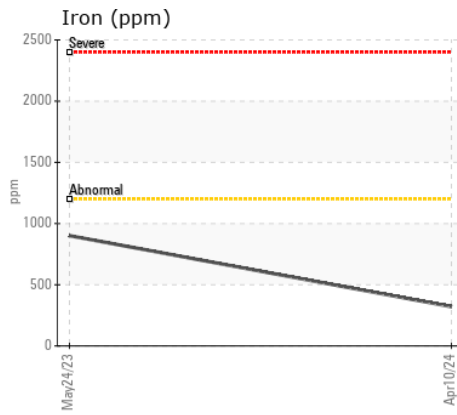
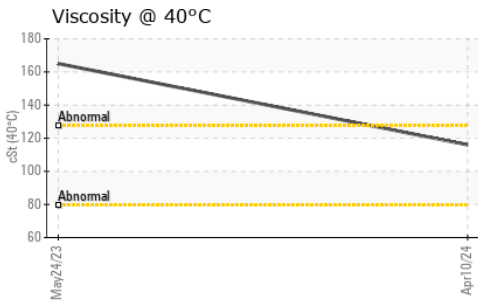
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |     |
|------------------|--------|-------------|-------|--------------|-------|-----|
| Silicon          | ppm    | ASTM D5185m | >100  | <b>11</b>    | 8     | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>0</b>     | 2     | --- |
| Water            |        | WC Method   | >0.25 | <b>NEG</b>   | NEG   | --- |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | --- |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | --- |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | --- |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | NORML | --- |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | NORML | --- |
| Emulsified Water | scalar | *Visual     | >0.25 | <b>NEG</b>   | NEG   | --- |

### FLUID CONDITION

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

|             |     |             |  |              |       |     |
|-------------|-----|-------------|--|--------------|-------|-----|
| Sodium      | ppm | ASTM D5185m |  | <b>&lt;1</b> | 0     | --- |
| Boron       | ppm | ASTM D5185m |  | <b>20</b>    | 2     | --- |
| Barium      | ppm | ASTM D5185m |  | <b>1</b>     | 0     | --- |
| Molybdenum  | ppm | ASTM D5185m |  | <b>25</b>    | 1     | --- |
| Manganese   | ppm | ASTM D5185m |  | <b>5</b>     | 11    | --- |
| Magnesium   | ppm | ASTM D5185m |  | <b>59</b>    | <1    | --- |
| Calcium     | ppm | ASTM D5185m |  | <b>927</b>   | 30    | --- |
| Phosphorus  | ppm | ASTM D5185m |  | <b>653</b>   | 445   | --- |
| Zinc        | ppm | ASTM D5185m |  | <b>445</b>   | 33    | --- |
| Sulfur      | ppm | ASTM D5185m |  | <b>11751</b> | 17108 | --- |
| Visc @ 40°C | cSt | ASTM D445   |  | <b>116</b>   | 165   | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP436459 **Received** : 16 Apr 2024  
**Lab Number** : 06150811 **Tested** : 17 Apr 2024  
**Unique Number** : 10980889 **Diagnosed** : 17 Apr 2024 - Wes Davis  
**Test Package** : MOB 1

**CITY CARTING**  
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 MILFORD, CT  
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 T:  
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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)