



# OIL ANALYSIS REPORT

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

Machine Id  
**VOLVO EC480EL 315166**  
Component  
**Left Final Drive**  
Fluid  
**VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)**

## RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current     | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number  |     | Client Info |           | VCP450780   | ---      | ---      |
| Sample Date    |     | Client Info |           | 21 Jun 2024 | ---      | ---      |
| Machine Age    | hrs | Client Info |           | 2104        | ---      | ---      |
| Oil Age        | hrs | Client Info |           | 0           | ---      | ---      |
| Filter Age     | hrs | Client Info |           | 0           | ---      | ---      |
| Oil Changed    |     | Client Info |           | Changed     | ---      | ---      |
| Filter Changed |     | Client Info |           | N/A         | ---      | ---      |
| Sample Status  |     |             |           | NORMAL      | ---      | ---      |

## WEAR

All component wear rates are normal.

|              |        |             |      |       |     |     |
|--------------|--------|-------------|------|-------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >500 | 526   | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >10  | 8     | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >10  | 0     | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | 0     | --- | --- |
| Silver       | ppm    | ASTM D5185m |      | 0     | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >25  | 2     | --- | --- |
| Lead         | ppm    | ASTM D5185m | >25  | 0     | --- | --- |
| Copper       | ppm    | ASTM D5185m | >50  | <1    | --- | --- |
| Tin          | ppm    | ASTM D5185m | >10  | 0     | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |      | 0     | --- | --- |
| White Metal  | scalar | *Visual     | NONE | MODER | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE | NONE  | --- | --- |

## CONTAMINATION

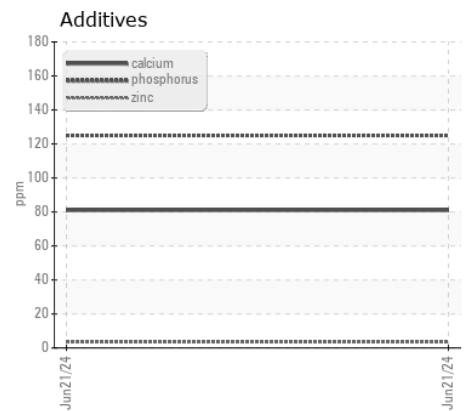
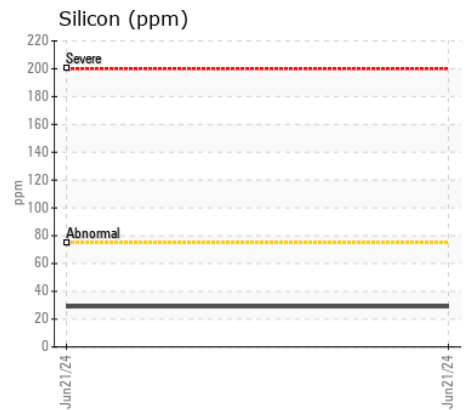
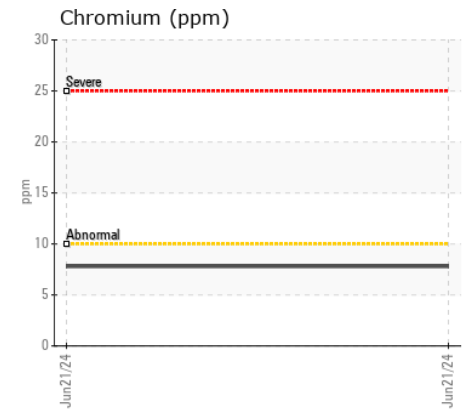
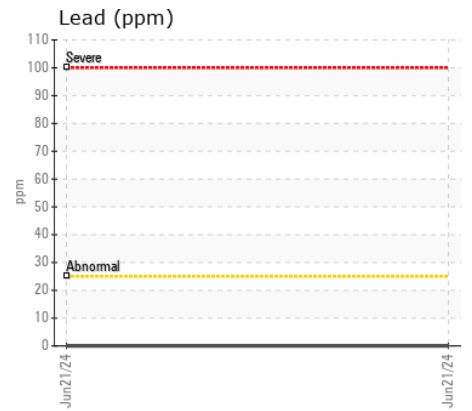
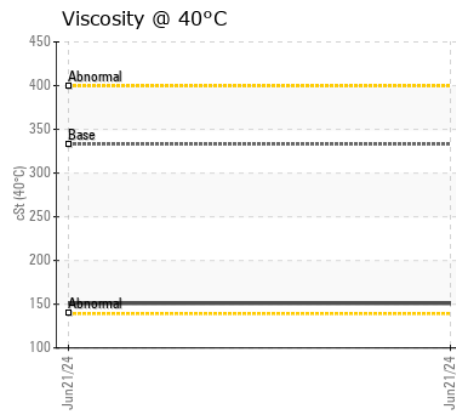
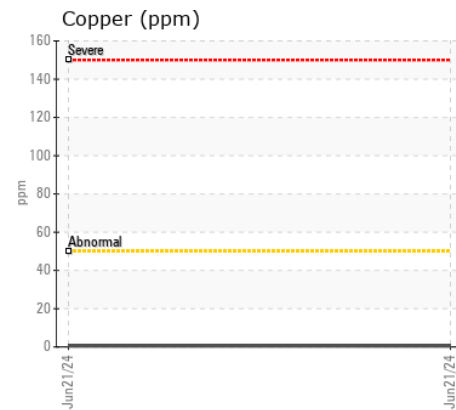
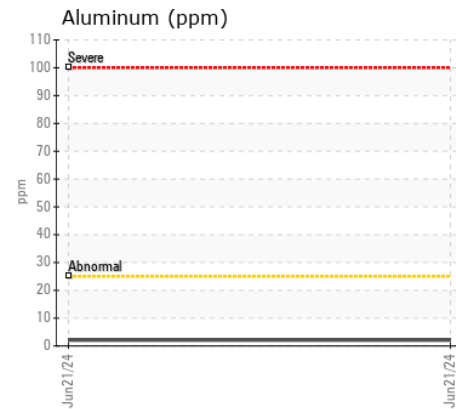
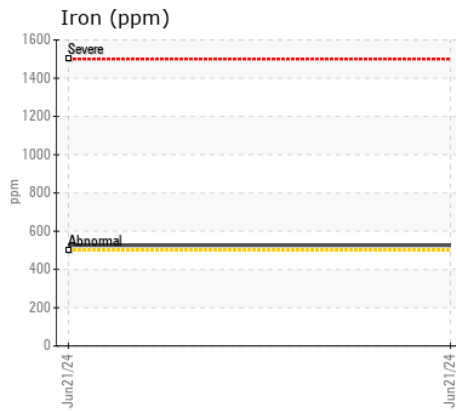
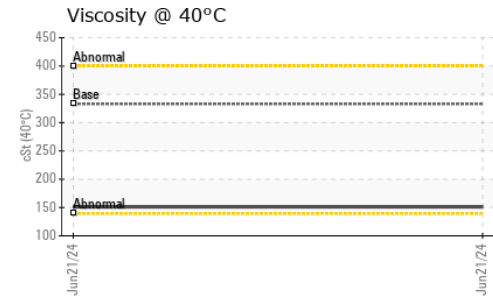
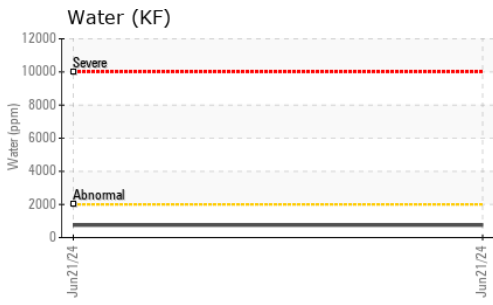
There is no indication of any contamination in the oil.

|                  |        |             |       |       |     |     |
|------------------|--------|-------------|-------|-------|-----|-----|
| Silicon          | ppm    | ASTM D5185m | >75   | 29    | --- | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | 0     | --- | --- |
| Water            | %      | ASTM D6304  | >0.2  | 0.075 | --- | --- |
| ppm Water        | ppm    | ASTM D6304  | >2000 | 750   | --- | --- |
| 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     | >0.2  | 0.2%  | --- | --- |

## FLUID CONDITION

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

|             |     |             |       |       |     |     |
|-------------|-----|-------------|-------|-------|-----|-----|
| Sodium      | ppm | ASTM D5185m |       | <1    | --- | --- |
| Boron       | ppm | ASTM D5185m | 111   | 0     | --- | --- |
| Barium      | ppm | ASTM D5185m | 0.0   | <1    | --- | --- |
| Molybdenum  | ppm | ASTM D5185m | 0.9   | <1    | --- | --- |
| Manganese   | ppm | ASTM D5185m | 0.0   | 5     | --- | --- |
| Magnesium   | ppm | ASTM D5185m | 39    | 3     | --- | --- |
| Calcium     | ppm | ASTM D5185m | 93    | 81    | --- | --- |
| Phosphorus  | ppm | ASTM D5185m | 920   | 125   | --- | --- |
| Zinc        | ppm | ASTM D5185m | 104   | 3     | --- | --- |
| Sulfur      | ppm | ASTM D5185m | 20179 | 18856 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445   | 333   | 151   | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : VCP450780

**Lab Number** : 06221578

**Unique Number** : 11099775

**Test Package** : MOB 1 ( Additional Tests: KF )

**Received** : 26 Jun 2024

**Tested** : 27 Jun 2024

**Diagnosed** : 28 Jun 2024 - Angela Borella

**ALTA EQUIPMENT COMPANY**

5151 DR MARTIN LUTHER KING BLVD

FORT MYERS, FL

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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)