



# CONSTRUCTION EQUIPMENT

## VOLVO EC250E 316313 - DIESEL ENGINE



**Sample No:** VCP421428

**Oil Type:** NOT GIVEN

**Job No:**



### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP421428   | --- | --- | --- |
| Sample Date   | 21 Aug 2023 | --- | --- | --- |
| Machine Hours | 600         | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | N/A         | --- | --- | --- |
| Sample Status | ABNORMAL    | --- | --- | --- |

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### OIL CONDITION

|                  |          |      |     |     |     |
|------------------|----------|------|-----|-----|-----|
| Visc @ 100°C     | cSt      | 10.6 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | 6.5  | --- | --- | --- |
| Oxidation (PA)   | %        | 59   | --- | --- | --- |

### Diagnosis

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. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



### CONTAMINATION

|                |     |     |     |     |     |
|----------------|-----|-----|-----|-----|-----|
| Soot %         | %   | 0.1 | --- | --- | --- |
| Nitration (PA) | %   | 76  | --- | --- | --- |
| Sulfation (PA) | %   | 50  | --- | --- | --- |
| Glycol         | %   | NEG | --- | --- | --- |
| Fuel           | %   | 0.3 | --- | --- | --- |
| Silicon        | ppm | 24  | --- | --- | --- |
| Sodium         | ppm | 4   | --- | --- | --- |
| Potassium      | ppm | 12  | --- | --- | --- |



### WEAR METALS

|            |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|
| Iron       | ppm | 20  | --- | --- | --- |
| Copper     | ppm | 787 | --- | --- | --- |
| Lead       | ppm | 0   | --- | --- | --- |
| Tin        | ppm | <1  | --- | --- | --- |
| Aluminum   | ppm | 10  | --- | --- | --- |
| Chromium   | ppm | <1  | --- | --- | --- |
| Molybdenum | ppm | 88  | --- | --- | --- |
| Nickel     | ppm | <1  | --- | --- | --- |
| Titanium   | ppm | 0   | --- | --- | --- |
| Silver     | ppm | 2   | --- | --- | --- |
| Manganese  | ppm | 2   | --- | --- | --- |
| Vanadium   | ppm | 0   | --- | --- | --- |



### ADDITIVES

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Calcium    | ppm | 2315 | --- | --- | --- |
| Magnesium  | ppm | 129  | --- | --- | --- |
| Zinc       | ppm | 1332 | --- | --- | --- |
| Phosphorus | ppm | 1105 | --- | --- | --- |
| Barium     | ppm | 0    | --- | --- | --- |
| Boron      | ppm | 40   | --- | --- | --- |

**Depot:** VOLVO0090  
**Unique No:** 10620385  
**Signed:** Jonathan Hester  
**Report Date:** 29 Aug 2023



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## GRAPHS

