



# CONSTRUCTION EQUIPMENT

RSO-031233 VOLVO EC250EL 310558 - DIESEL ENGINE



**Sample No:** VCP356816  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** RSO-031233



## SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP356816   | --- | --- | --- |
| Sample Date   | 11 Aug 2022 | --- | --- | --- |
| Machine Hours | 3179        | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | N/A         | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

### COWIN EQUIPMENT COMPANY

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## OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C     | cSt      | █ 13.2 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 11.6 | --- | --- | --- |
| Oxidation (PA)   | %        | 83     | --- | --- | --- |

### Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

All component wear rates are normal. 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 %         | %   | █ 0.2 | --- | --- | --- |
| Nitration (PA) | %   | 57    | --- | --- | --- |
| Sulfation (PA) | %   | 65    | --- | --- | --- |
| Glycol         | %   | NEG   | --- | --- | --- |
| Fuel           | %   | <1.0  | --- | --- | --- |
| Silicon        | ppm | █ 9   | --- | --- | --- |
| Sodium         | ppm | █ 0   | --- | --- | --- |
| Potassium      | ppm | █ 4   | --- | --- | --- |



## WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | █ 11 | --- | --- | --- |
| Copper     | ppm | █ 2  | --- | --- | --- |
| Lead       | ppm | █ <1 | --- | --- | --- |
| Tin        | ppm | █ <1 | --- | --- | --- |
| Aluminum   | ppm | █ 4  | --- | --- | --- |
| Chromium   | ppm | █ <1 | --- | --- | --- |
| Molybdenum | ppm | █ 38 | --- | --- | --- |
| Nickel     | ppm | █ 0  | --- | --- | --- |
| Titanium   | ppm | █ <1 | --- | --- | --- |
| Silver     | ppm | <1   | --- | --- | --- |
| Manganese  | ppm | █ <1 | --- | --- | --- |
| Vanadium   | ppm | 0    | --- | --- | --- |



## ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | █ 1689 | --- | --- | --- |
| Magnesium  | ppm | █ 507  | --- | --- | --- |
| Zinc       | ppm | █ 1116 | --- | --- | --- |
| Phosphorus | ppm | █ 948  | --- | --- | --- |
| Barium     | ppm | █ 0    | --- | --- | --- |
| Boron      | ppm | █ 64   | --- | --- | --- |

**Depot:** VOLVO8528  
**Unique No:** 10091128  
**Signed:** Wes Davis  
**Report Date:** 16 Aug 2022



# CONSTRUCTION EQUIPMENT



## GRAPHS

