



# CONSTRUCTION EQUIPMENT

SWA477490 MELDGAARD VOLVO EC350EL 3 14186 - DIESEL ENGINE



**Sample No:** VCP441145  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWA477490 MELDGAARD



## SAMPLE INFORMATION

|               |             |             |             |     |
|---------------|-------------|-------------|-------------|-----|
| Sample Number | VCP441145   | VCP413142   | VCP404552   | --- |
| Sample Date   | 09 Feb 2024 | 03 Oct 2023 | 28 Mar 2023 | --- |
| Machine Hours | 2035        | 1490        | 984         | --- |
| Oil Hours     | 0           | 0           | 0           | --- |
| Oil Changed   | Changed     | Changed     | Changed     | --- |
| Sample Status | ATTENTION   | NORMAL      | NORMAL      | --- |

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## OIL CONDITION

|                  |          |      |      |      |     |
|------------------|----------|------|------|------|-----|
| Visc @ 100°C     | cSt      | 12.1 | 12.4 | 12.5 | --- |
| Base Number (BN) | mg KOH/g | 7.8  | 7.8  | 8.5  | --- |
| Oxidation (PA)   | %        | 60   | 61   | 81   | --- |



## CONTAMINATION

|                |     |     |      |      |     |
|----------------|-----|-----|------|------|-----|
| Water          | %   | NEG | NEG  | NEG  | --- |
| Soot %         | %   | 0.1 | 0.1  | 0.1  | --- |
| Nitration (PA) | %   | 67  | 62   | 75   | --- |
| Sulfation (PA) | %   | 53  | 54   | 63   | --- |
| Glycol         | %   | NEG | NEG  | NEG  | --- |
| Fuel           | %   | 0.5 | <1.0 | <1.0 | --- |
| Silicon        | ppm | 5   | 3    | 7    | --- |
| Sodium         | ppm | <1  | 3    | 2    | --- |
| Potassium      | ppm | 2   | <1   | 1    | --- |



## WEAR METALS

|            |     |    |    |    |     |
|------------|-----|----|----|----|-----|
| Iron       | ppm | 5  | 2  | 8  | --- |
| Copper     | ppm | 5  | 11 | 41 | --- |
| Lead       | ppm | <1 | 0  | <1 | --- |
| Tin        | ppm | 1  | <1 | 2  | --- |
| Aluminum   | ppm | <1 | 1  | 1  | --- |
| Chromium   | ppm | <1 | 0  | <1 | --- |
| Molybdenum | ppm | 60 | 55 | 37 | --- |
| Nickel     | ppm | <1 | 0  | <1 | --- |
| Titanium   | ppm | <1 | 0  | 0  | --- |
| Silver     | ppm | 0  | 0  | 0  | --- |
| Manganese  | ppm | <1 | <1 | 1  | --- |
| Vanadium   | ppm | <1 | 0  | 0  | --- |



## ADDITIVES

|            |     |      |      |      |     |
|------------|-----|------|------|------|-----|
| Calcium    | ppm | 989  | 1116 | 1928 | --- |
| Magnesium  | ppm | 906  | 921  | 485  | --- |
| Zinc       | ppm | 1187 | 1266 | 1173 | --- |
| Phosphorus | ppm | 954  | 1012 | 959  | --- |
| Barium     | ppm | 1    | 0    | 0    | --- |
| Boron      | ppm | 0    | 0    | 25   | --- |

## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

**Depot:** VOLVO0095  
**Unique No:** 10899667  
**Signed:** Jonathan Hester  
**Report Date:** 29 Feb 2024



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## GRAPHS

