



# CONSTRUCTION EQUIPMENT

716461 BRIAR VOLVO A25G 752384 - DIESEL ENGINE



**Sample No:** VCP454516  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 716461 BRIAR



## SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP454516   | --- | --- | --- |
| Sample Date   | 16 May 2024 | --- | --- | --- |
| Machine Hours | 3018        | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | ABNORMAL    | --- | --- | --- |

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## OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C     | cSt      | █ 12.4 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 7.3  | --- | --- | --- |
| Oxidation (PA)   | %        | 69     | --- | --- | --- |

## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Valve wear is indicated. 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 acceptable for the time in service.



## CONTAMINATION

|                |     |       |     |     |     |
|----------------|-----|-------|-----|-----|-----|
| Water          | %   | NEG   | --- | --- | --- |
| Soot %         | %   | █ 0.3 | --- | --- | --- |
| Nitration (PA) | %   | 78    | --- | --- | --- |
| Sulfation (PA) | %   | 55    | --- | --- | --- |
| Glycol         | %   | NEG   | --- | --- | --- |
| Fuel           | %   | █ 0.3 | --- | --- | --- |
| Silicon        | ppm | █ 6   | --- | --- | --- |
| Sodium         | ppm | █ 4   | --- | --- | --- |
| Potassium      | ppm | █ <1  | --- | --- | --- |



## WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | █ 9  | --- | --- | --- |
| Copper     | ppm | █ 6  | --- | --- | --- |
| Lead       | ppm | █ 1  | --- | --- | --- |
| Tin        | ppm | █ 1  | --- | --- | --- |
| Aluminum   | ppm | █ 4  | --- | --- | --- |
| Chromium   | ppm | █ 0  | --- | --- | --- |
| Molybdenum | ppm | █ 50 | --- | --- | --- |
| Nickel     | ppm | ▲ 5  | --- | --- | --- |
| Titanium   | ppm | <1   | --- | --- | --- |
| Silver     | ppm | █ <1 | --- | --- | --- |
| Manganese  | ppm | █ <1 | --- | --- | --- |
| Vanadium   | ppm | 0    | --- | --- | --- |



## ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | █ 1324 | --- | --- | --- |
| Magnesium  | ppm | 799    | --- | --- | --- |
| Zinc       | ppm | █ 940  | --- | --- | --- |
| Phosphorus | ppm | █ 750  | --- | --- | --- |
| Barium     | ppm | █ 0    | --- | --- | --- |
| Boron      | ppm | █ 26   | --- | --- | --- |

**Depot:** VOLVO0090  
**Unique No:** 11046909  
**Signed:** Jonathan Hester  
**Report Date:** 30 May 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

