



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 752036 - DIESEL ENGINE



**Sample No:** VCP436860  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP436860   | --- | --- | --- |
| Sample Date   | 11 Apr 2024 | --- | --- | --- |
| Machine Hours | 877         | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

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### OIL CONDITION

|                  |          |      |     |     |     |
|------------------|----------|------|-----|-----|-----|
| Visc @ 100°C     | cSt      | 12.2 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | 6.9  | --- | --- | --- |
| Oxidation (PA)   | %        | 56   | --- | --- | --- |

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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 %         | %   | 0.2  | --- | --- | --- |
| Nitration (PA) | %   | 53   | --- | --- | --- |
| Sulfation (PA) | %   | 57   | --- | --- | --- |
| Glycol         | %   | NEG  | --- | --- | --- |
| Fuel           | %   | <1.0 | --- | --- | --- |
| Silicon        | ppm | 10   | --- | --- | --- |
| Sodium         | ppm | <1   | --- | --- | --- |
| Potassium      | ppm | 2    | --- | --- | --- |



### WEAR METALS

|            |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|
| Iron       | ppm | 10  | --- | --- | --- |
| Copper     | ppm | 133 | --- | --- | --- |
| Lead       | ppm | 1   | --- | --- | --- |
| Tin        | ppm | 2   | --- | --- | --- |
| Aluminum   | ppm | 2   | --- | --- | --- |
| Chromium   | ppm | <1  | --- | --- | --- |
| Molybdenum | ppm | 88  | --- | --- | --- |
| Nickel     | ppm | 6   | --- | --- | --- |
| Titanium   | ppm | <1  | --- | --- | --- |
| Silver     | ppm | 0   | --- | --- | --- |
| Manganese  | ppm | 1   | --- | --- | --- |
| Vanadium   | ppm | <1  | --- | --- | --- |



### ADDITIVES

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Calcium    | ppm | 1466 | --- | --- | --- |
| Magnesium  | ppm | 361  | --- | --- | --- |
| Zinc       | ppm | 1183 | --- | --- | --- |
| Phosphorus | ppm | 1026 | --- | --- | --- |
| Barium     | ppm | 0    | --- | --- | --- |
| Boron      | ppm | 365  | --- | --- | --- |

**Depot:** VOLVO0090  
**Unique No:** 10978453  
**Signed:** Sean Felton  
**Report Date:** 17 Apr 2024



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## GRAPHS

