



# CONSTRUCTION EQUIPMENT

715745 MOSAIC VOLVO A45G 352594 - DIESEL ENGINE



**Sample No:** VCP454968  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 715745 MOSAIC



## SAMPLE INFORMATION

|               |                    |             |             |     |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | <b>VCP454968</b>   | VCP449203   | VCP0007630  | --- |
| Sample Date   | <b>13 May 2024</b> | 12 Jan 2024 | 06 Jun 2023 | --- |
| Machine Hours | <b>5749</b>        | 5024        | 0           | --- |
| Oil Hours     | <b>500</b>         | 500         | 0           | --- |
| Oil Changed   | <b>Changed</b>     | Changed     | N/A         | --- |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | --- |

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## OIL CONDITION

|                  |          |             |      |      |     |
|------------------|----------|-------------|------|------|-----|
| Visc @ 100°C     | cSt      | <b>12.7</b> | 12.8 | 13.3 | --- |
| Base Number (BN) | mg KOH/g | <b>8.9</b>  | 9.5  | 6.6  | --- |
| Oxidation (PA)   | %        | <b>62</b>   | 77   | 61   | --- |

## Diagnosis

Resample at the next service interval to monitor. 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

|                |     |                |      |      |     |
|----------------|-----|----------------|------|------|-----|
| Water          | %   | <b>NEG</b>     | NEG  | NEG  | --- |
| Soot %         | %   | <b>0.2</b>     | 0.2  | 0.5  | --- |
| Nitration (PA) | %   | <b>68</b>      | 63   | 83   | --- |
| Sulfation (PA) | %   | <b>53</b>      | 59   | 60   | --- |
| Glycol         | %   | <b>NEG</b>     | NEG  | NEG  | --- |
| Fuel           | %   | <b>&lt;1.0</b> | <1.0 | <1.0 | --- |
| Silicon        | ppm | <b>4</b>       | 7    | 7    | --- |
| Sodium         | ppm | <b>4</b>       | 3    | 3    | --- |
| Potassium      | ppm | <b>&lt;1</b>   | <1   | <1   | --- |



## WEAR METALS

|            |     |              |    |    |     |
|------------|-----|--------------|----|----|-----|
| Iron       | ppm | <b>5</b>     | 9  | 13 | --- |
| Copper     | ppm | <b>4</b>     | 1  | 2  | --- |
| Lead       | ppm | <b>1</b>     | <1 | <1 | --- |
| Tin        | ppm | <b>&lt;1</b> | <1 | <1 | --- |
| Aluminum   | ppm | <b>1</b>     | 2  | <1 | --- |
| Chromium   | ppm | <b>&lt;1</b> | 0  | <1 | --- |
| Molybdenum | ppm | <b>56</b>    | 40 | 33 | --- |
| Nickel     | ppm | <b>2</b>     | 4  | 2  | --- |
| Titanium   | ppm | <b>&lt;1</b> | 5  | 55 | --- |
| Silver     | ppm | <b>0</b>     | 0  | 0  | --- |
| Manganese  | ppm | <b>&lt;1</b> | <1 | <1 | --- |
| Vanadium   | ppm | <b>&lt;1</b> | 0  | <1 | --- |



## ADDITIVES

|            |     |             |      |      |     |
|------------|-----|-------------|------|------|-----|
| Calcium    | ppm | <b>1279</b> | 1755 | 1839 | --- |
| Magnesium  | ppm | <b>878</b>  | 503  | 306  | --- |
| Zinc       | ppm | <b>1243</b> | 1190 | 1199 | --- |
| Phosphorus | ppm | <b>1058</b> | 1024 | 965  | --- |
| Barium     | ppm | <b>0</b>    | 0    | 0    | --- |
| Boron      | ppm | <b>8</b>    | 50   | 90   | --- |

**Depot:** VOLVO0093  
**Unique No:** 11071687  
**Signed:** Wes Davis  
**Report Date:** 11 Jun 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

