



# CONSTRUCTION EQUIPMENT

595343 STONE CO VOLVO L250H 1219 - DIESEL ENGINE



**Sample No:** VCP413266  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 595343 STONE CO



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP413266</b>   | VCP414125   | VCP419817   | VCP341860   |
| Sample Date   | <b>31 Aug 2023</b> | 15 Jun 2023 | 15 May 2023 | 03 Nov 2021 |
| Machine Hours | <b>10468</b>       | 9968        | 9488        | 8061        |
| Oil Hours     | <b>0</b>           | 500         | 0           | 0           |
| Oil Changed   | <b>Changed</b>     | Changed     | Changed     | Changed     |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | NORMAL      |

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## OIL CONDITION

|                  |          |             |      |      |      |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C     | cSt      | <b>13.8</b> | 13.6 | 13.6 | 12.6 |
| Base Number (BN) | mg KOH/g | <b>8.8</b>  | 8.5  | 8.6  | ---  |
| Oxidation (PA)   | %        | <b>59</b>   | 67   | 59   | 71   |

## CONTAMINATION

|                |     |                |      |      |      |
|----------------|-----|----------------|------|------|------|
| Soot %         | %   | <b>0.3</b>     | 0.4  | 0.4  | 0.4  |
| Nitration (PA) | %   | <b>57</b>      | 63   | 64   | 57   |
| Sulfation (PA) | %   | <b>53</b>      | 56   | 54   | 58   |
| Glycol         | %   | <b>NEG</b>     | NEG  | NEG  | NEG  |
| Fuel           | %   | <b>&lt;1.0</b> | <1.0 | <1.0 | <1.0 |
| Silicon        | ppm | <b>4</b>       | 4    | 4    | 3    |
| Sodium         | ppm | <b>2</b>       | 2    | 2    | 0    |
| Potassium      | ppm | <b>0</b>       | 2    | 2    | <1   |

## 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 acceptable for the time in service.

## WEAR METALS

|            |     |              |    |    |    |
|------------|-----|--------------|----|----|----|
| Iron       | ppm | <b>7</b>     | 11 | 11 | 7  |
| Copper     | ppm | <b>&lt;1</b> | <1 | 1  | 1  |
| Lead       | ppm | <b>0</b>     | 0  | 1  | <1 |
| Tin        | ppm | <b>0</b>     | 0  | <1 | <1 |
| Aluminum   | ppm | <b>7</b>     | 10 | 2  | <1 |
| Chromium   | ppm | <b>&lt;1</b> | 0  | <1 | <1 |
| Molybdenum | ppm | <b>56</b>    | 54 | 58 | 44 |
| Nickel     | ppm | <b>0</b>     | 0  | 1  | 0  |
| Titanium   | ppm | <b>0</b>     | 0  | 0  | 0  |
| Silver     | ppm | <b>0</b>     | 0  | 0  | <1 |
| Manganese  | ppm | <b>&lt;1</b> | 0  | <1 | <1 |
| Vanadium   | ppm | <b>0</b>     | 0  | <1 | 0  |

## ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>1110</b> | 1181 | 1080 | 1440 |
| Magnesium  | ppm | <b>950</b>  | 919  | 980  | 584  |
| Zinc       | ppm | <b>1278</b> | 1308 | 1353 | 1039 |
| Phosphorus | ppm | <b>1023</b> | 994  | 1080 | 913  |
| Barium     | ppm | <b>0</b>    | 0    | 0    | 0    |
| Boron      | ppm | <b>2</b>    | 8    | 1    | 29   |

**Depot:** VOLVO2990  
**Unique No:** 10644718  
**Signed:** Don Baldrige  
**Report Date:** 14 Sep 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

