



CONSTRUCTION EQUIPMENT

304760 VOLVO A45G 342256 - DIESEL ENGINE



Sample No: VCE202367
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 304760



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCE202367 | VCP273697 | VCP252356 | VCP272828 |
| Sample Date | 21 Nov 2021 | 20 Oct 2020 | 22 Jul 2020 | 23 May 2020 |
| Machine Hours | 7596 | 5500 | 5500 | 4600 |
| Oil Hours | 500 | 500 | 0 | 500 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|----------------|-----|-------------|------|------|------|
| Visc @ 100°C | cSt | 12.6 | 12.5 | 12.5 | 12.7 |
| Oxidation (PA) | % | 95 | 82 | 78 | 81 |

CONTAMINATION

| | | | | | |
|----------------|-----|----------------|-----|------|-----|
| Soot % | % | 0.5 | 0.3 | 0.3 | 0.2 |
| Nitration (PA) | % | 99 | 56 | 55 | 67 |
| Sulfation (PA) | % | 70 | 62 | 62 | 75 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | 0.5 | <1.0 | 0.7 |
| Silicon | ppm | 5 | 5 | 4 | 4 |
| Sodium | ppm | 5 | 3 | 2 | 1 |
| Potassium | ppm | <1 | 0 | <1 | <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 condition of the oil is acceptable for the time in service.

WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 8 | 6 | 7 | 7 |
| Copper | ppm | 1 | <1 | <1 | 1 |
| Lead | ppm | <1 | <1 | <1 | <1 |
| Tin | ppm | <1 | <1 | <1 | <1 |
| Aluminum | ppm | 1 | 1 | 1 | 1 |
| Chromium | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | 38 | 40 | 38 | 36 |
| Nickel | ppm | <1 | <1 | <1 | <1 |
| Titanium | ppm | 0 | <1 | <1 | <1 |
| Silver | ppm | 1 | <1 | 0 | 0 |
| Manganese | ppm | <1 | <1 | <1 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |

ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1608 | 1677 | 1591 | 1605 |
| Magnesium | ppm | 545 | 497 | 498 | 524 |
| Zinc | ppm | 1106 | 997 | 1058 | 934 |
| Phosphorus | ppm | 974 | 810 | 910 | 817 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 49 | 38 | 36 | 45 |

Depot: CASKIT
Unique No: 5331093
Signed: Wes Davis
Report Date: 21 Dec 2021



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GRAPHS

