



CONSTRUCTION EQUIPMENT

25456 VOLVO A45G 353374 - DIESEL ENGINE



Sample No: VCP433016
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25456



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP433016 | VCP440952 | VCP429022 | VCP433648 |
| Sample Date | 03 May 2024 | 05 Mar 2024 | 05 Dec 2023 | 26 Sep 2023 |
| Machine Hours | 3912 | 3445 | 3072 | 2653 |
| Oil Hours | 0 | 0 | 0 | 1000 |
| 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 | 12.6 | 12.8 |
| Base Number (BN) | mg KOH/g | 9.5 | 9.7 | 9.4 | 6.8 |
| Oxidation (PA) | % | 78 | 78 | 76 | 59 |

CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|------|------|
| Water | % | NEG | NEG | NEG | NEG |
| Soot % | % | 0.4 | 0.4 | 0.5 | 0.3 |
| Nitration (PA) | % | 59 | 58 | 61 | 59 |
| Sulfation (PA) | % | 61 | 60 | 61 | 58 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 4 | 4 | 6 | 8 |
| Sodium | ppm | 2 | 2 | <1 | 5 |
| Potassium | ppm | <1 | <1 | 2 | 4 |

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.

WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|-----|
| Iron | ppm | 6 | 0 | 8 | 9 |
| Copper | ppm | 3 | 4 | 2 | 6 |
| Lead | ppm | <1 | 2 | <1 | 2 |
| Tin | ppm | 1 | 0 | 1 | 1 |
| Aluminum | ppm | 3 | 2 | 2 | 2 |
| Chromium | ppm | 0 | <1 | <1 | <1 |
| Molybdenum | ppm | 42 | 42 | 48 | 106 |
| Nickel | ppm | <1 | 2 | 2 | 1 |
| Titanium | ppm | 0 | 0 | <1 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | <1 | <1 | 1 |
| Vanadium | ppm | 0 | <1 | 0 | 0 |

ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1825 | 1723 | 1545 | 1647 |
| Magnesium | ppm | 515 | 497 | 461 | 523 |
| Zinc | ppm | 1145 | 1073 | 1068 | 1435 |
| Phosphorus | ppm | 1000 | 928 | 855 | 1191 |
| Barium | ppm | 0 | 0 | 11 | 0 |
| Boron | ppm | 41 | 47 | 74 | 505 |

Depot: VOLVO3387
Unique No: 11018399
Signed: Wes Davis
Report Date: 09 May 2024



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GRAPHS

