



CONSTRUCTION EQUIPMENT

SWA310208 WOOD MEAD VOLVO A40G 341583 - DIESEL ENGINE



Sample No: VCP416317
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA310208 WOOD MEAD



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP416317 | VCP394064 | VCP344125 | VCP299344 |
| Sample Date | 13 Jul 2023 | 31 Jan 2023 | 16 Nov 2021 | 17 May 2021 |
| Machine Hours | 8238 | 8449 | 7738 | 7230 |
| Oil Hours | 0 | 0 | 0 | 500 |
| Oil Changed | Not Chngd | Not Chngd | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|------------------|----------|--------------|------|------|------|
| Visc @ 100°C | cSt | 12.55 | 12.8 | 12.9 | 13.2 |
| Base Number (BN) | mg KOH/g | 10.6 | 10.6 | --- | --- |
| Oxidation (PA) | % | 78 | 75 | 79 | 80 |

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

| | | | | | |
|----------------|-----|----------------|------|------|------|
| Soot % | % | 0.2 | 0.1 | 0.3 | 0.2 |
| Nitration (PA) | % | 57 | 48 | 65 | 56 |
| Sulfation (PA) | % | 61 | 59 | 61 | 65 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 6 | 8 | 7 | 8 |
| Sodium | ppm | 37 | 1 | 3 | 4 |
| Potassium | ppm | 1 | 1 | 1 | <1 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 12 | 8 | 13 | 9 |
| Copper | ppm | 4 | <1 | 2 | 1 |
| Lead | ppm | 1 | 1 | 1 | 1 |
| Tin | ppm | <1 | <1 | <1 | <1 |
| Aluminum | ppm | 7 | 4 | 3 | 0 |
| Chromium | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | 58 | 56 | 45 | 42 |
| Nickel | ppm | 2 | 1 | 2 | <1 |
| Titanium | ppm | <1 | 0 | <1 | <1 |
| Silver | ppm | 0 | 0 | <1 | 0 |
| Manganese | ppm | <1 | <1 | <1 | <1 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1740 | 1701 | 1781 | 1531 |
| Magnesium | ppm | 580 | 546 | 509 | 555 |
| Zinc | ppm | 1140 | 1180 | 1087 | 1047 |
| Phosphorus | ppm | 946 | 917 | 1025 | 933 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 47 | 65 | 25 | 67 |

Depot: VOLVO2990
Unique No: 10562265
Signed: Wes Davis
Report Date: 24 Jul 2023



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VOLVO GRAPHS

