



CONSTRUCTION EQUIPMENT

SWO-072394 VOLVO A45G 352639 - DIESEL ENGINE



Sample No: VCP443924
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-072394



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP443924 | VCP441454 | VCP427458 | VCP406861 |
| Sample Date | 29 May 2024 | 24 Jan 2024 | 23 Oct 2023 | 07 Aug 2023 |
| Machine Hours | 5870 | 5434 | 4956 | 4377 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | ATTENTION | NORMAL | NORMAL |

SAIIA CONSTRUCTION LLC

4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207

Contact: STEPHANI BRITTON
 sbritton@saiia.com;doug.bogart@wearcheck.com
 T: (205)943-2268
 F: (205)943-2269



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 12.5 | 12.2 | 13.1 | 12.5 |
| Base Number (BN) | mg KOH/g | 10.2 | 10.9 | 8.6 | 10.6 |
| Oxidation (PA) | % | 76 | 73 | 60 | 79 |



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|-----|------|------|
| Water | % | NEG | NEG | NEG | NEG |
| Soot % | % | 0.1 | 0.2 | 0.1 | 0.2 |
| Nitration (PA) | % | 50 | 56 | 52 | 53 |
| Sulfation (PA) | % | 58 | 55 | 51 | 60 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | 0.5 | <1.0 | <1.0 |
| Silicon | ppm | 4 | 4 | 3 | 3 |
| Sodium | ppm | 3 | 1 | <1 | 0 |
| Potassium | ppm | 3 | 2 | 0 | <1 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 3 | 5 | 2 | 4 |
| Copper | ppm | 2 | 1 | 1 | 5 |
| Lead | ppm | 0 | 1 | <1 | <1 |
| Tin | ppm | <1 | <1 | <1 | <1 |
| Aluminum | ppm | 2 | 2 | 1 | <1 |
| Chromium | ppm | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | 40 | 41 | 49 | 44 |
| Nickel | ppm | <1 | <1 | <1 | <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | <1 | <1 | 0 | <1 |
| Manganese | ppm | <1 | <1 | <1 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|--------------|------|------|------|
| Calcium | ppm | 1642 | 1688 | 1182 | 1795 |
| Magnesium | ppm | 500 | 533 | 774 | 491 |
| Zinc | ppm | 1125 | 1167 | 1181 | 1156 |
| Phosphorus | ppm | 982 | 1001 | 980 | 980 |
| Barium | ppm | <1 | 0 | 0 | 2 |
| Boron | ppm | 74 | 71 | 20 | 65 |

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.

Depot: SAIBIR
Unique No: 11059513
Signed: Jonathan Hester
Report Date: 11 Jun 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

