



CONSTRUCTION EQUIPMENT

SWA-065663 VOLVO A45G 353090 - DIESEL ENGINE



Sample No: VCP431101
Oil Type: MOBIL 15W40
Job No: SWA-065663



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP431101 | VCP407574 | VCP395401 | VCP370839 |
| Sample Date | 19 Sep 2023 | 09 Jun 2023 | 23 Feb 2023 | 17 Oct 2022 |
| Machine Hours | 2023 | 1481 | 1006 | 502 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | ATTENTION | ABNORMAL |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 12.6 | 12.8 | 12.4 | 10.6 |
| Base Number (BN) | mg KOH/g | 9.6 | 9.0 | 6.8 | 6.6 |
| Oxidation (PA) | % | 81 | 85 | 101 | 61 |



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|------|-----|
| Soot % | % | 0.3 | 0.3 | 0.3 | 0.2 |
| Nitration (PA) | % | 60 | 61 | 93 | 88 |
| Sulfation (PA) | % | 62 | 64 | 67 | 57 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | 0.6 |
| Silicon | ppm | 7 | 7 | 2 | 29 |
| Sodium | ppm | 3 | 3 | 0 | 3 |
| Potassium | ppm | <1 | 2 | 5 | 0 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|-----|
| Iron | ppm | 8 | 10 | 25 | 21 |
| Copper | ppm | 7 | 39 | 1 | 463 |
| Lead | ppm | <1 | <1 | 0 | 2 |
| Tin | ppm | 1 | 2 | <1 | 5 |
| Aluminum | ppm | 0 | 2 | 2 | 2 |
| Chromium | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | 40 | 44 | 55 | 84 |
| Nickel | ppm | 2 | 4 | 0 | <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | <1 | <1 | 2 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1771 | 1733 | 1073 | 2217 |
| Magnesium | ppm | 510 | 525 | 826 | 12 |
| Zinc | ppm | 1140 | 1197 | 1117 | 1134 |
| Phosphorus | ppm | 919 | 971 | 929 | 1022 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 39 | 47 | 5 | 56 |

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: 10660831
Signed: Don Baldrige
Report Date: 26 Sep 2023



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GRAPHS

