



CONSTRUCTION EQUIPMENT

VOLVO A45G 352704 - DIESEL ENGINE



Sample No: VCP431880
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP431880 | VCP389125 | VCP383498 | VCP406413 |
| Sample Date | 06 Nov 2023 | 17 Jul 2023 | 27 Apr 2023 | 08 Feb 2023 |
| Machine Hours | 4902 | 4405 | 3920 | 3450 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 12.7 | 12.7 | 12.9 | 12.8 |
| Base Number (BN) | mg KOH/g | 9.6 | 9.9 | 8.8 | 9.2 |
| Oxidation (PA) | % | 82 | 80 | 75 | 78 |



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|------|------|
| Soot % | % | 0.2 | 0.2 | 0.2 | 0.3 |
| Nitration (PA) | % | 56 | 57 | 54 | 66 |
| Sulfation (PA) | % | 62 | 61 | 57 | 63 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 4 | 5 | 5 | 6 |
| Sodium | ppm | 2 | 2 | 2 | 2 |
| Potassium | ppm | 0 | 0 | <1 | 0 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 2 | 5 | 5 | 10 |
| Copper | ppm | 2 | 8 | 14 | 78 |
| Lead | ppm | <1 | <1 | 0 | 2 |
| Tin | ppm | <1 | <1 | 0 | <1 |
| Aluminum | ppm | 2 | 0 | <1 | 1 |
| Chromium | ppm | 0 | <1 | 0 | <1 |
| Molybdenum | ppm | 36 | 40 | 38 | 41 |
| Nickel | ppm | <1 | <1 | 0 | <1 |
| Titanium | ppm | 0 | <1 | <1 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | <1 | <1 | <1 |
| Vanadium | ppm | 0 | <1 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1624 | 1740 | 1575 | 1575 |
| Magnesium | ppm | 483 | 518 | 487 | 493 |
| Zinc | ppm | 902 | 1117 | 1072 | 993 |
| Phosphorus | ppm | 747 | 929 | 870 | 802 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 53 | 50 | 53 | 42 |

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: 10743041
Signed: Don Baldrige
Report Date: 19 Nov 2023



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GRAPHS

