



CONSTRUCTION EQUIPMENT

VOLVO A45G 353279 - DIESEL ENGINE



Sample No: VCP455329
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP455329 | VCP422570 | VCP421342 | --- |
| Sample Date | 21 Mar 2024 | 21 Nov 2023 | 01 Aug 2023 | --- |
| Machine Hours | 3329 | 2605 | 1852 | --- |
| Oil Hours | 0 | 0 | 0 | --- |
| Oil Changed | Changed | Changed | Changed | --- |
| Sample Status | ATTENTION | ATTENTION | ATTENTION | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|-----|
| Visc @ 100°C | cSt | 12.1 | 11.9 | 12.0 | --- |
| Base Number (BN) | mg KOH/g | 8.6 | 9.0 | 8.4 | --- |
| Oxidation (PA) | % | 82 | 80 | 81 | --- |

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|-----|-----|
| Water | % | NEG | NEG | NEG | --- |
| Soot % | % | 0.4 | 0.4 | 0.6 | --- |
| Nitration (PA) | % | 73 | 68 | 73 | --- |
| Sulfation (PA) | % | 60 | 61 | 61 | --- |
| Glycol | % | NEG | NEG | NEG | --- |
| Fuel | % | <1.0 | <1.0 | 2.1 | --- |
| Silicon | ppm | 4 | 5 | 6 | --- |
| Sodium | ppm | 1 | 2 | 2 | --- |
| Potassium | ppm | 0 | 0 | <1 | --- |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|-----|
| Iron | ppm | 9 | 8 | 11 | --- |
| Copper | ppm | 4 | 5 | 16 | --- |
| Lead | ppm | 0 | <1 | 2 | --- |
| Tin | ppm | 0 | <1 | 1 | --- |
| Aluminum | ppm | <1 | <1 | <1 | --- |
| Chromium | ppm | 0 | 0 | <1 | --- |
| Molybdenum | ppm | 45 | 56 | 47 | --- |
| Nickel | ppm | 2 | 1 | 3 | --- |
| Titanium | ppm | 0 | 0 | <1 | --- |
| Silver | ppm | 0 | 0 | <1 | --- |
| Manganese | ppm | 0 | <1 | <1 | --- |
| Vanadium | ppm | 0 | <1 | <1 | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|-----|
| Calcium | ppm | 1868 | 1623 | 1698 | --- |
| Magnesium | ppm | 516 | 477 | 497 | --- |
| Zinc | ppm | 1157 | 1016 | 1077 | --- |
| Phosphorus | ppm | 990 | 922 | 881 | --- |
| Barium | ppm | 0 | 0 | 0 | --- |
| Boron | ppm | 25 | 23 | 22 | --- |

Depot: VOLVO0090
Unique No: 10941508
Signed: Don Baldrige
Report Date: 27 Mar 2024



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GRAPHS

