



CONSTRUCTION EQUIPMENT

660621 PRINCE VOLVO L120H 632683 - DIESEL ENGINE



Sample No: VCP437463
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 660621 PRINCE



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP437463 | VCP434831 | VCP421060 | VCP398682 |
| Sample Date | 16 Jan 2024 | 31 Aug 2023 | 11 May 2023 | 15 Feb 2023 |
| Machine Hours | 5187 | 4522 | 4061 | 3515 |
| 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 | 13.1 | 12.9 | 12.9 | 13.0 |
| Base Number (BN) | mg KOH/g | 10.1 | 10.1 | 10.4 | 11.0 |
| Oxidation (PA) | % | 79 | 78 | 78 | 77 |

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

| | | | | | |
|----------------|-----|----------------|------|------|------|
| Water | % | NEG | NEG | NEG | NEG |
| Soot % | % | 0.2 | 0.1 | 0.2 | 0.1 |
| Nitration (PA) | % | 56 | 52 | 53 | 53 |
| Sulfation (PA) | % | 60 | 58 | 60 | 59 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 5 | 4 | 4 | 2 |
| Sodium | ppm | 0 | 2 | 0 | 0 |
| Potassium | ppm | 2 | 0 | 1 | <1 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 8 | 4 | 5 | 3 |
| Copper | ppm | 2 | <1 | 1 | 0 |
| Lead | ppm | 1 | 0 | <1 | 0 |
| Tin | ppm | 2 | <1 | <1 | 0 |
| Aluminum | ppm | 3 | 3 | 2 | <1 |
| Chromium | ppm | <1 | 0 | <1 | 0 |
| Molybdenum | ppm | 44 | 44 | 47 | 41 |
| Nickel | ppm | 1 | 0 | <1 | 0 |
| Titanium | ppm | <1 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 1 | <1 | <1 | 0 |
| Vanadium | ppm | <1 | <1 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1578 | 1756 | 1582 | 1535 |
| Magnesium | ppm | 551 | 528 | 544 | 487 |
| Zinc | ppm | 1153 | 1104 | 1113 | 1050 |
| Phosphorus | ppm | 926 | 946 | 930 | 876 |
| Barium | ppm | 1 | 0 | 0 | <1 |
| Boron | ppm | 39 | 47 | 37 | 46 |

Depot: VOLVO0096
Unique No: 10844816
Signed: Wes Davis
Report Date: 23 Jan 2024



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GRAPHS

