



CONSTRUCTION EQUIPMENT

703487 IHFT SENNEBOGEN 830 830.0.2435 - DIESEL ENGINE



Sample No: VCP453512
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 703487 IHFT



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP453512 | VCP431700 | VCP411149 | VCP403675 |
| Sample Date | 02 May 2024 | 16 Oct 2023 | 27 Apr 2023 | 10 Jan 2023 |
| Machine Hours | 15591 | 14253 | 13582 | 12863 |
| Oil Hours | 500 | 500 | 500 | 500 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 13.8 | 13.4 | 12.9 | 12.8 |
| Base Number (BN) | mg KOH/g | 8.6 | 6.5 | 5.7 | 7.6 |
| Oxidation (PA) | % | 87 | 91 | 80 | 78 |

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 % | % | 2 | 0.5 | 0.6 | 0.9 |
| Nitration (PA) | % | 117 | 113 | 96 | 99 |
| Sulfation (PA) | % | 71 | 69 | 59 | 63 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 11 | 5 | 4 | 5 |
| Sodium | ppm | 5 | 4 | 3 | <1 |
| Potassium | ppm | 5 | 1 | 0 | 1 |



WEAR METALS

| | | | | | |
|------------|-----|-----------|----|----|----|
| Iron | ppm | 69 | 38 | 42 | 37 |
| Copper | ppm | 6 | 2 | 1 | 3 |
| Lead | ppm | 3 | <1 | 0 | 0 |
| Tin | ppm | 3 | 0 | 0 | 0 |
| Aluminum | ppm | 11 | 6 | 5 | 7 |
| Chromium | ppm | 6 | 2 | <1 | 1 |
| Molybdenum | ppm | 72 | 66 | 77 | 73 |
| Nickel | ppm | 3 | 0 | 0 | 0 |
| Titanium | ppm | 3 | 0 | 0 | 0 |
| Silver | ppm | 3 | 0 | 0 | 0 |
| Manganese | ppm | 3 | <1 | <1 | <1 |
| Vanadium | ppm | 2 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1419 | 1230 | 1455 | 1477 |
| Magnesium | ppm | 804 | 1072 | 1064 | 721 |
| Zinc | ppm | 1263 | 1253 | 1533 | 1267 |
| Phosphorus | ppm | 1036 | 1076 | 1168 | 1038 |
| Barium | ppm | 2 | 0 | 0 | 1 |
| Boron | ppm | 14 | 0 | 6 | 8 |

Depot: VOLVO2990
Unique No: 11033687
Signed: Don Baldrige
Report Date: 20 May 2024



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GRAPHS

