



CONSTRUCTION EQUIPMENT

717836 VOLVO L150H 6057 - DIESEL ENGINE



Sample No: VCP443030
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 717836



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP443030 | VCP438336 | VCP432117 | VCP440797 |
| Sample Date | 05 Jun 2024 | 25 Mar 2024 | 17 Jan 2024 | 30 Oct 2023 |
| Machine Hours | 13128 | 12571 | 12014 | 11520 |
| Oil Hours | 500 | 500 | 500 | 500 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | ATTENTION | NORMAL | NORMAL | ABNORMAL |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 12.3 | 12.8 | 12.7 | 12.3 |
| Base Number (BN) | mg KOH/g | 9.9 | 10.0 | 9.8 | 10.2 |
| Oxidation (PA) | % | 74 | 76 | 62 | 77 |

CONTAMINATION

| | | | | | |
|----------------|-----|------------|------|------|------|
| Water | % | NEG | NEG | NEG | NEG |
| Soot % | % | 0.1 | 0.1 | 0.1 | 0.1 |
| Nitration (PA) | % | 53 | 54 | 51 | 56 |
| Sulfation (PA) | % | 58 | 58 | 53 | 59 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | 0.4 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 5 | 6 | 14 | 7 |
| Sodium | ppm | 3 | 2 | 3 | 21 |
| Potassium | ppm | 0 | <1 | 2 | 12 |

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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.

WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 2 | 4 | 10 | 4 |
| Copper | ppm | <1 | 2 | 4 | 26 |
| Lead | ppm | 0 | <1 | <1 | 2 |
| Tin | ppm | 0 | <1 | 0 | <1 |
| Aluminum | ppm | <1 | 3 | 4 | 1 |
| Chromium | ppm | 0 | 0 | <1 | 0 |
| Molybdenum | ppm | 56 | 44 | 51 | 38 |
| Nickel | ppm | 0 | 0 | 0 | 0 |
| Titanium | ppm | 0 | 0 | <1 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | <1 | <1 | <1 |
| Vanadium | ppm | 0 | 0 | <1 | 0 |

ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1595 | 1642 | 1298 | 1464 |
| Magnesium | ppm | 528 | 577 | 871 | 467 |
| Zinc | ppm | 1044 | 1151 | 1255 | 1032 |
| Phosphorus | ppm | 906 | 998 | 1042 | 870 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 39 | 40 | 12 | 21 |

Depot: PARPLA
Unique No: 11126337
Signed: Sean Felton
Report Date: 18 Jul 2024



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GRAPHS

