



CONSTRUCTION EQUIPMENT

WILLINGTON ORGANICS 394646 VOLVO L120F 26483 - DIESEL ENGINE



Sample No: VCP382295
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 394646



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP382295 | VCP380996 | VCP334256 | VCP297539 |
| Sample Date | 12 Feb 2024 | 11 Apr 2023 | 09 Sep 2022 | 22 Jun 2021 |
| Machine Hours | 13502 | 13008 | 12500 | 11742 |
| Oil Hours | 500 | 500 | 500 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

Strongco Equipment
5179 Fountain St N.
Breslau, ON
CA N0B 1M0
Contact: Matt Crisci
mcrisci@strongco.com
T: (519)744-3518
F: (519)744-3284

OIL CONDITION

| | | | | | |
|----------------|-----|-------------|------|------|------|
| Visc @ 100°C | cSt | 14.1 | 14.2 | 14.7 | 14.5 |
| Oxidation (PA) | % | 86 | 86 | 96 | 88 |

CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|------|------|
| Water | % | NEG | NEG | NEG | NEG |
| Soot % | % | 0.3 | 0.3 | 0.5 | 0.5 |
| Nitration (PA) | % | 73 | 74 | 93 | 81 |
| Sulfation (PA) | % | 65 | 66 | 75 | 65 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 7 | 7 | 8 | 6 |
| Sodium | ppm | 3 | 3 | 9 | 15 |
| Potassium | ppm | <1 | <1 | 1 | <1 |

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 condition of the oil is acceptable for the time in service.

WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 7 | 7 | 12 | 9 |
| Copper | ppm | <1 | <1 | 1 | 1 |
| Lead | ppm | <1 | <1 | 2 | 1 |
| Tin | ppm | 0 | 0 | <1 | <1 |
| Aluminum | ppm | 2 | 2 | 2 | 2 |
| Chromium | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | 39 | 39 | 32 | 28 |
| Nickel | ppm | <1 | <1 | 0 | <1 |
| Titanium | ppm | 12 | 17 | 23 | 30 |
| Silver | ppm | 0 | 0 | 0 | <1 |
| Manganese | ppm | 0 | <1 | <1 | <1 |
| Vanadium | ppm | 0 | <1 | <1 | <1 |

ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1805 | 1910 | 1929 | 1899 |
| Magnesium | ppm | 525 | 539 | 539 | 481 |
| Zinc | ppm | 1132 | 1189 | 1205 | 1254 |
| Phosphorus | ppm | 960 | 1060 | 1038 | 976 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 41 | 44 | 29 | 32 |

Depot: CASKIT
Unique No: 5737264
Signed: Wes Davis
Report Date: 06 Mar 2024



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GRAPHS

