

CONSTRUCTION EQUIPMENT VOLVO EC300ELR 316826 - DIESEL ENGINE 2694-1



Sample No: VCP429154

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No: 2694-1

| VOLVO | | | | |
|-----------------------|------------|---------------|----------|------|
| SAMPLE IN | IFORMATION | | | |
| Sample Number | - | VCP429154 | | |
| Sample Date | | 03 Nov 2023 | | |
| Machine Hours | | 642 | | |
| Oil Hours | | 642 | | |
| Oil Changed | | Changed | | |
| Sample Status | | ABNORMAL | | |
| | | | | |
| OIL CONDI. | TION | | | |
| | | | <u>.</u> | |
| Visc @ 100°C | cSt | 10.5 | | |
| Base Number (BN) | mg KOH/g | 6.6 | | |
| Oxidation (PA) | % | 67 | | |
| VOLVO | | | | |
| CONTAMIN | IATION | | | |
| Soot % | % | 0.1 | | |
| Nitration (PA) | % | 78 | | |
| Sulfation (PA) | % | 56 | | |
| Glycol | % | NEG | | |
| Fuel | % | ■0.3 | | |
| Silicon | ppm | ■21 | | |
| Sodium | ppm | <u></u> 5 | | |
| Potassium | ppm | 26 | | |
| | | | | |
| WEAR ME | TAIC | | | |
| _ | - | • | | |
| Iron | ppm | 16 | | |
| Copper | ppm | <u>^</u> 686 | | |
| Lead | ppm | 0 | | |
| Tin | ppm | 0 | | |
| Aluminum | ppm | 10 | | |
| Chromium | ppm | - <1 | | |
| Molybdenum | ppm | ■ 110 | | |
| Nickel | ppm | ■ <1 | | |
| Titanium Silver | ppm | <1 | | |
| | ppm | 2 | | |
| Manganese Vanadium | ppm | ■ 1 <1 | | |
| variaululli | ppm | < 1 | | |
| VOLVO | | | | |
| ADDITIVE: | 7 | | | |
| Calcium | ppm | 2309 | | |
| Magnesium | ppm | 180 | | |
| Zinc | ppm | 1334 | | |
| Phosphorus | ppm | 1138 | | |
| Barium | ppm | ■8 | | |
| Boron | ppm | 133 | | |
| | | | | |



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Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. 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.

Depot: VOLVO1023 **Unique No:** 10737825 Signed: Sean Felton Report Date: 14 Nov 2023



CONSTRUCTION EQUIPMENT





