



CONSTRUCTION EQUIPMENT

580184 ALTA RENTS VOLVO EC380 315520 - DIESEL ENGINE



Sample No: VCP415542
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 580184 ALTA RENTS



SAMPLE INFORMATION

Sample Number	VCP415542	---	---	---
Sample Date	15 Jul 2023	---	---	---
Machine Hours	1163	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.7	---	---	---
Base Number (BN)	mg KOH/g	■ 7.6	---	---	---
Oxidation (PA)	%	■ 63	---	---	---

CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	■ 68	---	---	---
Sulfation (PA)	%	■ 56	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	■ 0.3	---	---	---
Silicon	ppm	■ 8	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ <1	---	---	---

WEAR METALS

Iron	ppm	■ 8	---	---	---
Copper	ppm	▲ 70	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 0	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 63	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	■ 1228	---	---	---
Magnesium	ppm	■ 927	---	---	---
Zinc	ppm	■ 1265	---	---	---
Phosphorus	ppm	■ 1002	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ <1	---	---	---

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. The copper level is abnormal. All other 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.

Depot: VOLVO0096
Unique No: 10564315
Signed: Don Baldrige
Report Date: 21 Jul 2023



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GRAPHS

