



CONSTRUCTION EQUIPMENT

633380 ALTA RENTS VOLVO EC380 3 15583 - DIESEL ENGINE



Sample No: VCP434865
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 633380 ALTA RENTS



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
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SAMPLE INFORMATION

Sample Number	VCP434865	---	---	---
Sample Date	08 Nov 2023	---	---	---
Machine Hours	750	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	▲ 10.8	---	---	---
Base Number (BN)	mg KOH/g	■ 4.7	---	---	---
Oxidation (PA)	%	70	---	---	---



CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	83	---	---	---
Sulfation (PA)	%	61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.8	---	---	---
Silicon	ppm	▲ 30	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 2	---	---	---



WEAR METALS

Iron	ppm	■ 11	---	---	---
Copper	ppm	▲ 205	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 81	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 3	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 2153	---	---	---
Magnesium	ppm	29	---	---	---
Zinc	ppm	■ 1194	---	---	---
Phosphorus	ppm	■ 975	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 17	---	---	---

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. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO0093
Unique No: 10739028
Signed: Don Baldrige
Report Date: 15 Nov 2023



CONSTRUCTION EQUIPMENT



GRAPHS

