



CONSTRUCTION EQUIPMENT

X47391 VOLVO EC300EL 316688 - DIESEL ENGINE



Sample No: VCP427029
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: X47391



SAMPLE INFORMATION

Sample Number	VCP427029	---	---	---
Sample Date	08 Aug 2023	---	---	---
Machine Hours	951	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

SCOTT EQUIPMENT COMPANY LLC - Lake Charles
 PO BOX 16955
 LAKE CHARLES, LA
 US 70616
 Contact: FRED RACCA
 fracca@scottcompanies.com
 T: (337)433-9811
 F: (337)433-6623



OIL CONDITION

Visc @ 100°C	cSt	▲ 11.7	---	---	---
Base Number (BN)	mg KOH/g	■ 5.6	---	---	---
Oxidation (PA)	%	75	---	---	---

Diagnosis

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. 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.



CONTAMINATION

Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	94	---	---	---
Sulfation (PA)	%	64	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.2	---	---	---
Silicon	ppm	■ 19	---	---	---
Sodium	ppm	■ 5	---	---	---
Potassium	ppm	■ 12	---	---	---



WEAR METALS

Iron	ppm	■ 23	---	---	---
Copper	ppm	▲ 284	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 6	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 94	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 2476	---	---	---
Magnesium	ppm	■ 93	---	---	---
Zinc	ppm	■ 1431	---	---	---
Phosphorus	ppm	■ 1146	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 55	---	---	---

Depot: VOLVO6244
Unique No: 10602707
Signed: Don Baldrige
Report Date: 15 Aug 2023



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GRAPHS

