



CONSTRUCTION EQUIPMENT

BECKNER CONST VOLVO EC480 315121 - DIESEL ENGINE



Sample No: VCP422915
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: BECKNER CONST



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: KENNY HANEY
 khaney@flaglerce.com
 T: (813)630-0077
 F: (813)630-2233

SAMPLE INFORMATION

Sample Number	VCP422915	---	---	---
Sample Date	30 Jun 2023	---	---	---
Machine Hours	593	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.0	---	---	---
Base Number (BN)	mg KOH/g	■ 6.4	---	---	---
Oxidation (PA)	%	■ 68	---	---	---

CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	■ 84	---	---	---
Sulfation (PA)	%	■ 58	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	■ 0.6	---	---	---
Silicon	ppm	■ 29	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 4	---	---	---

WEAR METALS

Iron	ppm	■ 5	---	---	---
Copper	ppm	▲ 498	---	---	---
Lead	ppm	■ 5	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 6	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 96	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	■ 0	---	---	---

ADDITIVES

Calcium	ppm	■ 2384	---	---	---
Magnesium	ppm	■ 272	---	---	---
Zinc	ppm	■ 1429	---	---	---
Phosphorus	ppm	■ 1229	---	---	---
Barium	ppm	■ 13	---	---	---
Boron	ppm	■ 41	---	---	---

Diagnosis

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: VOLVO0093
Unique No: 10551659
Signed: Jonathan Hester
Report Date: 14 Jul 2023



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GRAPHS

