



CONSTRUCTION EQUIPMENT

SWA420381 VOLVO EC480 315263 - DIESEL ENGINE



Sample No: VCP433343
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA420381



SAMPLE INFORMATION

Sample Number	VCP433343	---	---	---
Sample Date	27 Nov 2023	---	---	---
Machine Hours	868	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

Phillips & Jordan
 PO BOX 2295
 Zephyrhills, FL
 US 33539-2295
 Contact: DANNY BOYD
 DBOYD@PANDJ.COM
 T: (813)783-2499
 F: (813)715-7354

OIL CONDITION

Visc @ 100°C	cSt	▲ 10.9	---	---	---
Base Number (BN)	mg KOH/g	■ 4.2	---	---	---
Oxidation (PA)	%	76	---	---	---

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.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	92	---	---	---
Sulfation (PA)	%	65	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.6	---	---	---
Silicon	ppm	■ 34	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 4	---	---	---

WEAR METALS

Iron	ppm	■ 19	---	---	---
Copper	ppm	▲ 218	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 93	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 2201	---	---	---
Magnesium	ppm	■ 66	---	---	---
Zinc	ppm	■ 1191	---	---	---
Phosphorus	ppm	■ 937	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 2	---	---	---

Depot: PHIZEP
Unique No: 10779639
Signed: Jonathan Hester
Report Date: 18 Dec 2023



CONSTRUCTION EQUIPMENT



GRAPHS

