



# CONSTRUCTION EQUIPMENT

A68118 BOSWORTH CO VOLVO EC340D 210255 - DIESEL ENGINE



**Sample No:** VCP420431  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** A68118 BOSWORTH CO



**CHADWICK-BAROSS INC MAIN**  
 PO BOX 4500  
 WESTBROOK, ME  
 US 04098  
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## SAMPLE INFORMATION

Sample Number	VCP420431	---	---	---
Sample Date	24 Jan 2024	---	---	---
Machine Hours	3549	---	---	---
Oil Hours	400	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---



## OIL CONDITION

Visc @ 100°C	cSt	▲ 12.4	---	---	---
Base Number (BN)	mg KOH/g	■ 7.0	---	---	---
Oxidation (PA)	%	51	---	---	---



## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	61	---	---	---
Sulfation (PA)	%	49	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.6	---	---	---
Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ <1	---	---	---



## WEAR METALS

Iron	ppm	■ 6	---	---	---
Copper	ppm	▲ 19	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 75	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	■ 2145	---	---	---
Magnesium	ppm	■ 78	---	---	---
Zinc	ppm	■ 1224	---	---	---
Phosphorus	ppm	■ 1053	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 93	---	---	---

## Diagnosis

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.

**Depot:** VOLVO0006  
**Unique No:** 10848729  
**Signed:** Jonathan Hester  
**Report Date:** 30 Jan 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

