



# CONSTRUCTION EQUIPMENT

RS022394 VOLVO EC250EL 310558 - DIESEL ENGINE



**Sample No:** VCP156838  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** RS022394



## SAMPLE INFORMATION

Sample Number	VCP156838	---	---	---
Sample Date	28 Sep 2020	---	---	---
Machine Hours	1480	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

### COWIN EQUIPMENT COMPANY

P.O. DRAWER 9367  
MONTGOMERY, AL  
US 36108

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## OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	---	---	---
Oxidation (PA)	%	█ 91	---	---	---



## CONTAMINATION

Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	█ 82	---	---	---
Sulfation (PA)	%	█ 64	---	---	---
Glycol	%	█ NEG	---	---	---
Fuel	%	█ <1.0	---	---	---
Silicon	ppm	█ 10	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 10	---	---	---

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	█ 16	---	---	---
Copper	ppm	█ 6	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 12	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 35	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	█ 0	---	---	---



## ADDITIVES

Calcium	ppm	█ 1118	---	---	---
Magnesium	ppm	█ 389	---	---	---
Zinc	ppm	█ 627	---	---	---
Phosphorus	ppm	█ 524	---	---	---
Barium	ppm	█ 1	---	---	---
Boron	ppm	█ 23	---	---	---

**Depot:** VOLVO8532  
**Unique No:** 9194541  
**Signed:** Don Baldrige  
**Report Date:** 04 Oct 2020



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## GRAPHS

