



# CONSTRUCTION EQUIPMENT

## 716038 BULK EXPRESS VOLVO EC220E 315542 - DIESEL ENGINE



**Sample No:** VCP431660  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 716038 BULK EXPRESS



### SAMPLE INFORMATION

Sample Number	VCP431660	---	---	---
Sample Date	05 Jun 2024	---	---	---
Machine Hours	4425	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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### OIL CONDITION

Visc @ 100°C	cSt	█ 13.0	---	---	---
Base Number (BN)	mg KOH/g	█ 9.7	---	---	---
Oxidation (PA)	%	87	---	---	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	66	---	---	---
Sulfation (PA)	%	65	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 34	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 1	---	---	---



### WEAR METALS

Iron	ppm	█ 7	---	---	---
Copper	ppm	█ 1	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 43	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---



### ADDITIVES

Calcium	ppm	█ 1650	---	---	---
Magnesium	ppm	█ 557	---	---	---
Zinc	ppm	█ 1139	---	---	---
Phosphorus	ppm	█ 905	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 27	---	---	---

**Depot:** VOLVO0095  
**Unique No:** 11073552  
**Signed:** Sean Felton  
**Report Date:** 13 Jun 2024



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## GRAPHS

