



# CONSTRUCTION EQUIPMENT

## VOLVO EC300EL 3 13 148 - DIESEL ENGINE



**Sample No:** VCP437546  
**Oil Type:** VALVOLINE 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP437546	VCP432584	VCP412084	VCP294682
Sample Date	14 May 2024	28 Feb 2024	25 Oct 2023	15 Feb 2021
Machine Hours	7144	6788	6401	1909
Oil Hours	0	0	292	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

**CITY CARTING**  
 221 OLD GATE LN  
 MILFORD, CT  
 US 06460  
 Contact: TAVINS BANKS  
 tavins@citycart.net  
 T: (203)223-3885  
 F:

### OIL CONDITION

Visc @ 100°C	cSt	12.4	12.4	13.0	11.2
Base Number (BN)	mg KOH/g	6.5	6.9	7.2	---
Oxidation (PA)	%	39	37	47	45

### 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	57	53	53	62
Sulfation (PA)	%	47	44	47	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.3
Silicon	ppm	12	12	13	10
Sodium	ppm	3	0	1	2
Potassium	ppm	4	3	1	3

### WEAR METALS

Iron	ppm	8	6	5	9
Copper	ppm	3	1	<1	1
Lead	ppm	<1	<1	0	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	5	3	3	5
Chromium	ppm	1	<1	0	<1
Molybdenum	ppm	35	46	50	46
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	1	<1	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	<1	<1	0	0

### ADDITIVES

Calcium	ppm	1979	2091	1723	2131
Magnesium	ppm	172	170	268	163
Zinc	ppm	1008	1038	959	1048
Phosphorus	ppm	867	914	871	893
Barium	ppm	0	0	4	0
Boron	ppm	30	29	30	28

**Depot:** CITMILCON  
**Unique No:** 11050422  
**Signed:** Wes Davis  
**Report Date:** 30 May 2024



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## GRAPHS

