



# CONSTRUCTION EQUIPMENT

## VOLVO EC300EL 313114 - DIESEL ENGINE



**Sample No:** VCP438758  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP438758</b>	VCP439042	VCP422034	---
Sample Date	<b>17 Apr 2024</b>	09 Jan 2024	12 Jun 2023	---
Machine Hours	<b>2290</b>	2112	1631	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

**ALTA EQUIPMENT COMPANY**  
 5151 DR MARTIN LUTHER KING BLVD  
 FORT MYERS, FL  
 US 33905  
 Contact: TODD LARK  
 tlark@altaequipfl.com  
 T:  
 F: (239)481-3302



### OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	12.6	13.3	---
Base Number (BN)	mg KOH/g	<b>10.5</b>	9.6	9.2	---
Oxidation (PA)	%	<b>76</b>	81	86	---

### 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	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.1</b>	0.2	0.3	---
Nitration (PA)	%	<b>47</b>	63	78	---
Sulfation (PA)	%	<b>59</b>	59	64	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>9</b>	9	14	---
Sodium	ppm	<b>2</b>	<1	4	---
Potassium	ppm	<b>3</b>	6	18	---



### WEAR METALS

Iron	ppm	<b>6</b>	6	19	---
Copper	ppm	<b>5</b>	2	8	---
Lead	ppm	<b>&lt;1</b>	<1	0	---
Tin	ppm	<b>&lt;1</b>	<1	2	---
Aluminum	ppm	<b>3</b>	6	7	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>47</b>	64	47	---
Nickel	ppm	<b>&lt;1</b>	2	<1	---
Titanium	ppm	<b>&lt;1</b>	<1	<1	---
Silver	ppm	<b>&lt;1</b>	<1	0	---
Manganese	ppm	<b>0</b>	<1	<1	---
Vanadium	ppm	<b>&lt;1</b>	<1	<1	---



### ADDITIVES

Calcium	ppm	<b>1655</b>	1622	1927	---
Magnesium	ppm	<b>472</b>	546	472	---
Zinc	ppm	<b>1083</b>	1172	1166	---
Phosphorus	ppm	<b>944</b>	920	943	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>58</b>	23	22	---

**Depot:** VOLVO0090  
**Unique No:** 10989463  
**Signed:** Wes Davis  
**Report Date:** 22 Apr 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

