



# CONSTRUCTION EQUIPMENT

## X47838 VOLVO EC300EL 314528 - DIESEL ENGINE



**Sample No:** VCP435261  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** X47838



### SAMPLE INFORMATION

Sample Number	<b>VCP435261</b>	VCP329620	VCP311646	---
Sample Date	<b>13 Oct 2023</b>	16 Dec 2021	02 Apr 2021	---
Machine Hours	<b>3459</b>	1490	449	---
Oil Hours	<b>0</b>	1490	0	---
Oil Changed	<b>N/A</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>14.6</b>	13.8	12.6	---
Base Number (BN)	mg KOH/g	<b>5.7</b>	9	---	---
Oxidation (PA)	%	<b>86</b>	61	48	---

### 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

Soot %	%	<b>0.4</b>	0.1	0.1	---
Nitration (PA)	%	<b>87</b>	71	63	---
Sulfation (PA)	%	<b>70</b>	55	53	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>16</b>	6	9	---
Sodium	ppm	<b>4</b>	2	2	---
Potassium	ppm	<b>11</b>	12	6	---



### WEAR METALS

Iron	ppm	<b>23</b>	6	11	---
Copper	ppm	<b>7</b>	2	19	---
Lead	ppm	<b>2</b>	1	4	---
Tin	ppm	<b>2</b>	1	3	---
Aluminum	ppm	<b>5</b>	4	3	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>20</b>	8	10	---
Nickel	ppm	<b>0</b>	0	5	---
Titanium	ppm	<b>0</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	1	---
Manganese	ppm	<b>&lt;1</b>	<1	3	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>2203</b>	1541	2197	---
Magnesium	ppm	<b>148</b>	692	299	---
Zinc	ppm	<b>1255</b>	880	1128	---
Phosphorus	ppm	<b>966</b>	793	1006	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>43</b>	75	20	---

**Depot:** VOLVO6244  
**Unique No:** 10699579  
**Signed:** Wes Davis  
**Report Date:** 19 Oct 2023



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## GRAPHS

