



# CONSTRUCTION EQUIPMENT

## VOLVO EC240BLC 11321 - DIESEL ENGINE



**Sample No:** VCE166736  
**Oil Type:** SHELL ROTELLA T 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCE166736</b>	VCE166866	VC377345	VC325206
Sample Date	<b>14 Jun 2024</b>	19 Apr 2017	01 Jun 2008	03 Jan 2008
Machine Hours	<b>12277</b>	8906	3689	3277
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	N/A	Changed	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### FLUVIAL SOLUTIONS

512 OAKWOOD AVE  
 RALEIGH, NC  
 US 27601  
 Contact: PETER JELENEVSKY  
 peter@fluvialsolutions.com  
 T: (919)605-6134  
 F: (919)821-4626



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.8</b>	14.97	14.41	14.62
Base Number (BN)	mg KOH/g	<b>9.0</b>	---	---	---
Oxidation (PA)	%	<b>61</b>	60	51	51

### 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	NEG
Soot %	%	<b>0.1</b>	0	0	0
Nitration (PA)	%	<b>58</b>	50	55	55
Sulfation (PA)	%	<b>53</b>	50	50	50
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>12</b>	4	4	3
Sodium	ppm	<b>6</b>	5	<1	2
Potassium	ppm	<b>6</b>	5	0	0



### WEAR METALS

Iron	ppm	<b>16</b>	5	3	6
Copper	ppm	<b>1</b>	<1	0	<1
Lead	ppm	<b>&lt;1</b>	2	<1	0
Tin	ppm	<b>&lt;1</b>	4	0	0
Aluminum	ppm	<b>4</b>	1	1	1
Chromium	ppm	<b>1</b>	<1	0	<1
Molybdenum	ppm	<b>40</b>	5	0	<1
Nickel	ppm	<b>&lt;1</b>	0	0	<1
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	0	0
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1840</b>	2138	2282	2234
Magnesium	ppm	<b>368</b>	66	283	277
Zinc	ppm	<b>1282</b>	1048	1164	1086
Phosphorus	ppm	<b>1060</b>	850	1050	1087
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>81</b>	51	0	0

**Depot:** FLURAL  
**Unique No:** 11090326  
**Signed:** Wes Davis  
**Report Date:** 24 Jun 2024



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## VOLVO GRAPHS

