



# CONSTRUCTION EQUIPMENT

## 634566 VOLVO SD115B 236662 - DIESEL ENGINE



**Sample No:** VCP433436  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 634566



### SAMPLE INFORMATION

Sample Number	<b>VCP433436</b>	VCP306431	VCP269712	---
Sample Date	<b>28 Nov 2023</b>	04 Feb 2021	17 Mar 2020	---
Machine Hours	<b>4274</b>	1597	577	---
Oil Hours	<b>500</b>	500	577	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
 TAMPA, FL  
 US 33619  
 Contact: PM Services  
 PMServices@ripaconstruction.com  
 T:  
 F:



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.4</b>	12.7	13.2	---
Base Number (BN)	mg KOH/g	<b>9.8</b>	---	---	---
Oxidation (PA)	%	<b>81</b>	83	68	---

### 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>	0.104	NEG	---
Soot %	%	<b>1.2</b>	0.7	0.4	---
Nitration (PA)	%	<b>91</b>	90	80	---
Sulfation (PA)	%	<b>61</b>	61	56	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>8</b>	12	19	---
Sodium	ppm	<b>2</b>	0	4	---
Potassium	ppm	<b>4</b>	<1	1	---



### WEAR METALS

Iron	ppm	<b>28</b>	38	34	---
Copper	ppm	<b>2</b>	5	35	---
Lead	ppm	<b>1</b>	<1	<1	---
Tin	ppm	<b>&lt;1</b>	2	0	---
Aluminum	ppm	<b>6</b>	4	12	---
Chromium	ppm	<b>2</b>	5	3	---
Molybdenum	ppm	<b>53</b>	54	24	---
Nickel	ppm	<b>&lt;1</b>	<1	1	---
Titanium	ppm	<b>&lt;1</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	1	3	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1757</b>	1653	1282	---
Magnesium	ppm	<b>451</b>	679	711	---
Zinc	ppm	<b>1182</b>	1186	849	---
Phosphorus	ppm	<b>975</b>	1056	731	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>35</b>	13	23	---

**Depot:** RIPTAM  
**Unique No:** 10833688  
**Signed:** Wes Davis  
**Report Date:** 18 Jan 2024



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## GRAPHS

