



# CONSTRUCTION EQUIPMENT

X47606 VOLVO SD115B 236990 - DIESEL ENGINE



**Sample No:** VCP414622  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** X47606



## SAMPLE INFORMATION

Sample Number	<b>VCP414622</b>	VCP389054	VCP391024	---
Sample Date	<b>15 Sep 2023</b>	09 Jun 2023	03 Nov 2022	---
Machine Hours	<b>1634</b>	1267	575	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>N/A</b>	N/A	N/A	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	13.4	13.0	---
Base Number (BN)	mg KOH/g	<b>9.8</b>	10.3	11.7	---
Oxidation (PA)	%	<b>72</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

Soot %	%	<b>0.2</b>	0.4	0.3	---
Nitration (PA)	%	<b>53</b>	72	69	---
Sulfation (PA)	%	<b>57</b>	62	66	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>9</b>	8	12	---
Sodium	ppm	<b>2</b>	3	3	---
Potassium	ppm	<b>11</b>	26	10	---



## WEAR METALS

Iron	ppm	<b>14</b>	26	29	---
Copper	ppm	<b>1</b>	3	6	---
Lead	ppm	<b>0</b>	<1	<1	---
Tin	ppm	<b>&lt;1</b>	2	2	---
Aluminum	ppm	<b>3</b>	9	6	---
Chromium	ppm	<b>2</b>	2	2	---
Molybdenum	ppm	<b>37</b>	33	41	---
Nickel	ppm	<b>0</b>	1	<1	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	1	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



## ADDITIVES

Calcium	ppm	<b>1990</b>	1788	1730	---
Magnesium	ppm	<b>470</b>	393	475	---
Zinc	ppm	<b>1166</b>	1118	1141	---
Phosphorus	ppm	<b>935</b>	928	887	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>29</b>	38	51	---

**Depot:** VOLVO6244  
**Unique No:** 10658574  
**Signed:** Wes Davis  
**Report Date:** 22 Sep 2023



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## GRAPHS

