



# CONSTRUCTION EQUIPMENT

## 45524 VOLVO A25G 752052 - DIESEL ENGINE



**Sample No:** VCP432838  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 45524



### SAMPLE INFORMATION

Sample Number	<b>VCP432838</b>	VCP364055	VCP345229	---
Sample Date	<b>15 Aug 2023</b>	24 Aug 2022	09 Feb 2022	---
Machine Hours	<b>2553</b>	1523	977	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	12.5	12.3	---
Base Number (BN)	mg KOH/g	<b>9.9</b>	10.7	10.2	---
Oxidation (PA)	%	<b>80</b>	87	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>0.3</b>	0.4	0.4	---
Nitration (PA)	%	<b>63</b>	68	69	---
Sulfation (PA)	%	<b>60</b>	68	69	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	0.5	---
Silicon	ppm	<b>4</b>	5	11	---
Sodium	ppm	<b>2</b>	2	2	---
Potassium	ppm	<b>&lt;1</b>	1	<1	---



### WEAR METALS

Iron	ppm	<b>8</b>	11	20	---
Copper	ppm	<b>1</b>	9	63	---
Lead	ppm	<b>&lt;1</b>	<1	<1	---
Tin	ppm	<b>&lt;1</b>	1	2	---
Aluminum	ppm	<b>0</b>	3	2	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>39</b>	42	45	---
Nickel	ppm	<b>&lt;1</b>	3	5	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	<1	<1	---
Manganese	ppm	<b>&lt;1</b>	<1	2	---
Vanadium	ppm	<b>&lt;1</b>	<1	0	---



### ADDITIVES

Calcium	ppm	<b>1747</b>	1652	1707	---
Magnesium	ppm	<b>514</b>	478	579	---
Zinc	ppm	<b>1148</b>	1140	1164	---
Phosphorus	ppm	<b>925</b>	939	987	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>39</b>	39	31	---

**Depot:** VOLVO8531  
**Unique No:** 10660805  
**Signed:** Wes Davis  
**Report Date:** 26 Sep 2023



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## GRAPHS

