



# CONSTRUCTION EQUIPMENT

## 25256 VOLVO A45G 353402 - DIESEL ENGINE



**Sample No:** VCP408876  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 25256



### SAMPLE INFORMATION

Sample Number	<b>VCP408876</b>	VCP440947	VCP424620	---
Sample Date	<b>02 Apr 2024</b>	14 Feb 2024	06 Oct 2023	---
Machine Hours	<b>3188</b>	2842	2406	---
Oil Hours	<b>0</b>	0	1000	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.4</b>	12.4	12.5	---
Base Number (BN)	mg KOH/g	<b>10.0</b>	8.7	7.5	---
Oxidation (PA)	%	<b>78</b>	76	61	---

### 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	0.3	---
Nitration (PA)	%	<b>57</b>	64	63	---
Sulfation (PA)	%	<b>60</b>	60	60	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>4</b>	8	6	---
Sodium	ppm	<b>2</b>	3	2	---
Potassium	ppm	<b>0</b>	1	2	---



### WEAR METALS

Iron	ppm	<b>6</b>	11	6	---
Copper	ppm	<b>1</b>	3	5	---
Lead	ppm	<b>0</b>	1	<1	---
Tin	ppm	<b>&lt;1</b>	1	1	---
Aluminum	ppm	<b>1</b>	3	3	---
Chromium	ppm	<b>0</b>	1	<1	---
Molybdenum	ppm	<b>42</b>	50	83	---
Nickel	ppm	<b>0</b>	3	1	---
Titanium	ppm	<b>0</b>	<1	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	1	<1	---
Vanadium	ppm	<b>0</b>	<1	0	---



### ADDITIVES

Calcium	ppm	<b>1708</b>	1424	1278	---
Magnesium	ppm	<b>506</b>	445	396	---
Zinc	ppm	<b>1093</b>	1037	1151	---
Phosphorus	ppm	<b>945</b>	829	945	---
Barium	ppm	<b>0</b>	34	0	---
Boron	ppm	<b>50</b>	67	263	---

**Depot:** VOLVO3387  
**Unique No:** 10965821  
**Signed:** Wes Davis  
**Report Date:** 09 Apr 2024



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## GRAPHS

