



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 353334 - DIESEL ENGINE



**Sample No:** VCP436767  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



**ALTA EQUIPMENT COMPANY**  
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### SAMPLE INFORMATION

Sample Number	<b>VCP436767</b>	VCP400663	VCP323824	---
Sample Date	<b>10 Apr 2024</b>	05 Dec 2023	12 Sep 2023	---
Machine Hours	<b>3239</b>	2529	1931	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	N/A	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---



### OIL CONDITION

Visc @ 100°C	cSt	<b>12.5</b>	12.7	12.7	---
Base Number (BN)	mg KOH/g	<b>8.7</b>	7.2	8.6	---
Oxidation (PA)	%	<b>84</b>	86	78	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.4</b>	0.6	0.4	---
Nitration (PA)	%	<b>75</b>	83	68	---
Sulfation (PA)	%	<b>63</b>	65	61	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>5</b>	6	8	---
Sodium	ppm	<b>&lt;1</b>	2	3	---
Potassium	ppm	<b>1</b>	0	<1	---



### WEAR METALS

Iron	ppm	<b>9</b>	14	10	---
Copper	ppm	<b>7</b>	15	15	---
Lead	ppm	<b>2</b>	<1	<1	---
Tin	ppm	<b>2</b>	<1	1	---
Aluminum	ppm	<b>2</b>	<1	1	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>50</b>	49	52	---
Nickel	ppm	<b>3</b>	3	2	---
Titanium	ppm	<b>&lt;1</b>	0	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>&lt;1</b>	0	<1	---



### ADDITIVES

Calcium	ppm	<b>1876</b>	1703	1957	---
Magnesium	ppm	<b>532</b>	492	563	---
Zinc	ppm	<b>1211</b>	1109	1232	---
Phosphorus	ppm	<b>1032</b>	907	994	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>31</b>	13	20	---

### 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.

**Depot:** VOLVO0090  
**Unique No:** 10978441  
**Signed:** Wes Davis  
**Report Date:** 15 Apr 2024



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## GRAPHS

