



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 353273 - DIESEL ENGINE



**Sample No:** VCP436845  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP436845</b>	VCP422310	VCP426566	---
Sample Date	<b>09 Apr 2024</b>	01 Dec 2023	24 Aug 2023	---
Machine Hours	<b>3225</b>	2581	1911	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	N/A	Changed	---
Sample Status	<b>ABNORMAL</b>	ATTENTION	ABNORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.1</b>	12.3	11.8	---
Base Number (BN)	mg KOH/g	<b>9.4</b>	9.6	8.5	---
Oxidation (PA)	%	<b>78</b>	79	72	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.3</b>	0.3	0.4	---
Nitration (PA)	%	<b>63</b>	62	66	---
Sulfation (PA)	%	<b>60</b>	60	58	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	3.4	---
Silicon	ppm	<b>6</b>	5	6	---
Sodium	ppm	<b>&lt;1</b>	2	2	---
Potassium	ppm	<b>1</b>	0	<1	---



### WEAR METALS

Iron	ppm	<b>8</b>	6	10	---
Copper	ppm	<b>6</b>	3	15	---
Lead	ppm	<b>1</b>	<1	<1	---
Tin	ppm	<b>1</b>	<1	1	---
Aluminum	ppm	<b>2</b>	1	2	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>51</b>	44	45	---
Nickel	ppm	<b>8</b>	3	2	---
Titanium	ppm	<b>&lt;1</b>	<1	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	0	<1	---
Vanadium	ppm	<b>0</b>	<1	0	---



### ADDITIVES

Calcium	ppm	<b>1796</b>	1591	1673	---
Magnesium	ppm	<b>508</b>	492	516	---
Zinc	ppm	<b>1146</b>	1060	1145	---
Phosphorus	ppm	<b>972</b>	853	909	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>40</b>	29	27	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Exhaust valve wear is indicated. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

**Depot:** VOLVO0090  
**Unique No:** 10978440  
**Signed:** Sean Felton  
**Report Date:** 17 Apr 2024



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## GRAPHS

