



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 353274 - DIESEL ENGINE



**Sample No:** VCP439072  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP439072	VCP397663	---	---
Sample Date	18 Jan 2024	18 Sep 2023	---	---
Machine Hours	3045	2337	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ATTENTION	---	---

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### OIL CONDITION

Visc @ 100°C	cSt	█ 12.2	▲ 11.9	---	---
Base Number (BN)	mg KOH/g	█ 9.1	█ 8.2	---	---
Oxidation (PA)	%	79	77	---	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. 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 acceptable for the time in service.



### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.4	█ 0.6	---	---
Nitration (PA)	%	65	70	---	---
Sulfation (PA)	%	60	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	▲ 2.1	---	---
Silicon	ppm	█ 4	█ 5	---	---
Sodium	ppm	█ 2	█ 2	---	---
Potassium	ppm	█ <1	█ 1	---	---



### WEAR METALS

Iron	ppm	█ 7	█ 13	---	---
Copper	ppm	█ 7	█ 16	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ <1	█ 2	---	---
Aluminum	ppm	█ 1	█ <1	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 47	█ 49	---	---
Nickel	ppm	█ 2	█ 3	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	<1	0	---	---



### ADDITIVES

Calcium	ppm	█ 1580	█ 1824	---	---
Magnesium	ppm	█ 487	█ 533	---	---
Zinc	ppm	█ 1047	█ 1136	---	---
Phosphorus	ppm	█ 892	█ 904	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 30	█ 20	---	---

**Depot:** VOLVO0090  
**Unique No:** 10843060  
**Signed:** Sean Felton  
**Report Date:** 23 Jan 2024



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## GRAPHS

