



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 752086 - DIESEL ENGINE



**Sample No:** VCP450892  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP450892	VCP439035	---	---
Sample Date	14 Jun 2024	03 Jan 2024	---	---
Machine Hours	1298	591	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ATTENTION	---	---

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### OIL CONDITION

Visc @ 100°C	cSt	12.0	11.0	---	---
Base Number (BN)	mg KOH/g	7.4	5.3	---	---
Oxidation (PA)	%	78	59	---	---



### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.3	0.2	---	---
Nitration (PA)	%	79	78	---	---
Sulfation (PA)	%	62	56	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.6	---	---
Silicon	ppm	8	29	---	---
Sodium	ppm	2	2	---	---
Potassium	ppm	<1	2	---	---

### 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



### WEAR METALS

Iron	ppm	8	14	---	---
Copper	ppm	65	171	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	3	---	---
Aluminum	ppm	<1	2	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	44	80	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	0	0	---	---



### ADDITIVES

Calcium	ppm	1739	2082	---	---
Magnesium	ppm	410	55	---	---
Zinc	ppm	1024	1185	---	---
Phosphorus	ppm	897	982	---	---
Barium	ppm	0	0	---	---
Boron	ppm	14	21	---	---

**Depot:** VOLVO0090  
**Unique No:** 11087203  
**Signed:** Jonathan Hester  
**Report Date:** 25 Jun 2024



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## GRAPHS

