



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342583 - DIESEL ENGINE



**Sample No:** VCP0007882  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP0007882</b>	VCP401701	VCP356985	VCP307305
Sample Date	<b>02 May 2024</b>	08 Feb 2023	24 Mar 2022	19 May 2021
Machine Hours	<b>6881</b>	5694	4585	3820
Oil Hours	<b>6881</b>	0	0	0
Oil Changed	<b>N/A</b>	Changed	Changed	Not Changd
Sample Status	<b>NORMAL</b>	ATTENTION	ATTENTION	NORMAL

**ALTA EQUIPMENT COMPANY**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.7</b>	11.8	11.3	12.4
Base Number (BN)	mg KOH/g	<b>10.0</b>	9.2	10.6	---
Oxidation (PA)	%	<b>67</b>	56	83	80



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0</b>	0.2	0.3	0.1
Nitration (PA)	%	<b>38</b>	58	67	56
Sulfation (PA)	%	<b>57</b>	51	65	62
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	2.8	<1.0
Silicon	ppm	<b>9</b>	3	4	5
Sodium	ppm	<b>1</b>	1	2	3
Potassium	ppm	<b>2</b>	0	0	<1



### WEAR METALS

Iron	ppm	<b>2</b>	7	14	8
Copper	ppm	<b>&lt;1</b>	2	7	20
Lead	ppm	<b>0</b>	<1	0	1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>3</b>	2	3	1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>41</b>	56	56	39
Nickel	ppm	<b>&lt;1</b>	<1	0	<1
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1454</b>	1024	1587	1678
Magnesium	ppm	<b>463</b>	915	494	446
Zinc	ppm	<b>1042</b>	1185	988	1097
Phosphorus	ppm	<b>936</b>	947	881	908
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>67</b>	0	41	60

### 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:** VOLVO0092  
**Unique No:** 11010416  
**Signed:** Wes Davis  
**Report Date:** 07 May 2024



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## VOLVO GRAPHS

