



# CONSTRUCTION EQUIPMENT

## 24584 VOLVO A40G 352464 - DIESEL ENGINE



**Sample No:** VCP433699  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 24584



### SAMPLE INFORMATION

Sample Number	<b>VCP433699</b>	VCP435176	VCP407057	---
Sample Date	<b>14 Dec 2023</b>	09 Sep 2023	25 May 2023	---
Machine Hours	<b>4571</b>	3992	3349	---
Oil Hours	<b>1000</b>	1000	1000	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.5</b>	12.1	12.7	---
Base Number (BN)	mg KOH/g	<b>9.2</b>	9.0	6.0	---
Oxidation (PA)	%	<b>80</b>	70	68	---

### 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.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.2</b>	0.2	0.2	---
Nitration (PA)	%	<b>66</b>	71	77	---
Sulfation (PA)	%	<b>60</b>	56	55	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	2.2	<1.0	---
Silicon	ppm	<b>6</b>	6	4	---
Sodium	ppm	<b>1</b>	3	3	---
Potassium	ppm	<b>0</b>	3	2	---



### WEAR METALS

Iron	ppm	<b>4</b>	8	14	---
Copper	ppm	<b>1</b>	2	5	---
Lead	ppm	<b>0</b>	1	1	---
Tin	ppm	<b>&lt;1</b>	2	2	---
Aluminum	ppm	<b>1</b>	1	2	---
Chromium	ppm	<b>0</b>	<1	<1	---
Molybdenum	ppm	<b>40</b>	41	64	---
Nickel	ppm	<b>0</b>	<1	2	---
Titanium	ppm	<b>0</b>	<1	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	<1	<1	---



### ADDITIVES

Calcium	ppm	<b>1636</b>	1973	1179	---
Magnesium	ppm	<b>522</b>	537	941	---
Zinc	ppm	<b>1123</b>	1198	1379	---
Phosphorus	ppm	<b>899</b>	972	1081	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>37</b>	30	6	---

**Depot:** VOLVO3387  
**Unique No:** 10792829  
**Signed:** Wes Davis  
**Report Date:** 19 Dec 2023



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## GRAPHS

