



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 353024 - DIESEL ENGINE



**Sample No:** VCP426716  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP426716</b>	VCP416711	VCP400420	---
Sample Date	<b>29 Aug 2023</b>	06 Jun 2023	06 Jan 2023	---
Machine Hours	<b>2996</b>	2513	1623	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	N/A	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.2</b>	12.6	12.8	---
Base Number (BN)	mg KOH/g	<b>9.8</b>	8.4	10.4	---
Oxidation (PA)	%	<b>80</b>	85	80	---

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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

Soot %	%	<b>0.2</b>	0.2	0.4	---
Nitration (PA)	%	<b>62</b>	78	60	---
Sulfation (PA)	%	<b>61</b>	64	61	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>0.3</b>	<1.0	<1.0	---
Silicon	ppm	<b>5</b>	6	6	---
Sodium	ppm	<b>3</b>	<1	2	---
Potassium	ppm	<b>0</b>	2	0	---



### WEAR METALS

Iron	ppm	<b>5</b>	8	9	---
Copper	ppm	<b>10</b>	23	1	---
Lead	ppm	<b>0</b>	<1	2	---
Tin	ppm	<b>&lt;1</b>	1	2	---
Aluminum	ppm	<b>1</b>	<1	3	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>72</b>	46	57	---
Nickel	ppm	<b>&lt;1</b>	3	2	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1787</b>	1664	1726	---
Magnesium	ppm	<b>557</b>	481	555	---
Zinc	ppm	<b>1158</b>	1100	1212	---
Phosphorus	ppm	<b>956</b>	898	929	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>39</b>	19	41	---

**Depot:** VOLVO0090  
**Unique No:** 10632421  
**Signed:** Wes Davis  
**Report Date:** 06 Sep 2023



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## GRAPHS

