



# CONSTRUCTION EQUIPMENT

## 24228 VOLVO A40G 352835 - DIESEL ENGINE



**Sample No:** VCP434616  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 24228



### SAMPLE INFORMATION

Sample Number	<b>VCP434616</b>	VCP426845	VCP404394	---
Sample Date	<b>20 Oct 2023</b>	27 Mar 2023	14 Jan 2023	---
Machine Hours	<b>4008</b>	2974	2623	---
Oil Hours	<b>1000</b>	1000	1000	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	ABNORMAL	ABNORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	█ <b>12.2</b>	█ 12.6	▲ 12.2	---
Base Number (BN)	mg KOH/g	█ <b>8.3</b>	█ 9.8	█ 6.2	---
Oxidation (PA)	%	<b>80</b>	80	88	---

### 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

Soot %	%	█ <b>0.2</b>	█ 0.2	█ 0.3	---
Nitration (PA)	%	<b>71</b>	60	94	---
Sulfation (PA)	%	<b>62</b>	63	68	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	█ 0.9	---
Silicon	ppm	█ <b>7</b>	█ 6	█ 12	---
Sodium	ppm	█ <b>4</b>	█ 2	█ 3	---
Potassium	ppm	█ <b>3</b>	█ <1	█ 0	---



### WEAR METALS

Iron	ppm	█ <b>9</b>	█ 7	█ 19	---
Copper	ppm	█ <b>25</b>	▲ 38	▲ 126	---
Lead	ppm	█ <b>0</b>	█ 0	█ 2	---
Tin	ppm	█ <b>&lt;1</b>	█ <1	█ 3	---
Aluminum	ppm	█ <b>2</b>	█ 2	█ 2	---
Chromium	ppm	█ <b>0</b>	█ <1	█ <1	---
Molybdenum	ppm	█ <b>38</b>	█ 42	█ 45	---
Nickel	ppm	█ <b>0</b>	█ <1	█ 1	---
Titanium	ppm	<b>0</b>	0	<1	---
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>1702</b>	█ 1826	█ 1549	---
Magnesium	ppm	█ <b>522</b>	█ 553	█ 439	---
Zinc	ppm	█ <b>1107</b>	█ 1202	█ 969	---
Phosphorus	ppm	█ <b>811</b>	█ 986	█ 731	---
Barium	ppm	█ <b>0</b>	█ 0	█ 0	---
Boron	ppm	█ <b>27</b>	█ 46	█ 10	---

**Depot:** VOLVO3387  
**Unique No:** 10711600  
**Signed:** Jonathan Hester  
**Report Date:** 31 Oct 2023



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## GRAPHS

