

## CONSTRUCTION EQUIPMENT 23909 VOLVO A40G 352850 - DIESEL ENGINE



Sample No: VCP430766

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

**Job No:** 23909

SAMPLE II	NFORMATION				
Sample Number		VCP430766	VCP426838	VCP317332	
Sample Date		02 Sep 2023	22 Mar 2023	11 Apr 2022	
Machine Hours		4011	2992	1077	
Oil Hours		1000	1000	0	
Oil Changed		Changed	Changed	N/A	
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	
sample Status		ADNORWAL	ADNONVIAL	ADINOMINIAL	
VOLVO					
OIL CONDI	TION				
/isc @ 100°C	cSt	<b>▲</b> 12.3	<b>▲</b> 11.7	□10.9	
Base Number (BN)	mg KOH/g	<b>7.9</b>	<b>5.3</b>	<b>7.1</b>	
Oxidation (PA)	%	81	92	71	
		-	-		
VOLVO	ISTIGN				
CONTAMIN	NATIUN				
Soot %	%	<b>0.2</b>	■ 0.3	<b>0.1</b>	
Nitration (PA)	%	74	98	81	
Sulfation (PA)	%	63	69	61	
Glycol	%	NEG	NEG	NEG	
uel	%	<1.0	< 1.0	■ 0.8	
Silicon	ppm	<b>6</b>	<b>1</b> 5	<b>△</b> 31	
Sodium	ppm	<b>2</b>	<b>4</b>	<b>2</b>	
Potassium	ppm	<b>0</b>	0	<b>3</b>	
VOLVO	TALC				
WEAR ME	IAL2				
ron	ppm	<b>12</b>	<b>2</b> 2	<b>2</b> 0	
Copper	ppm	<u>^</u> 86	<b>A</b> 80	<u></u> 4 302 <u></u> 302 <u></u> 302 <u> 302 </u>	
_ead	ppm	<b>■</b> 0	<b>2</b>	<b>1</b>	
Γin	ppm	<b>■&lt;1</b>	<b>3</b>	<b>5</b>	
Aluminum	ppm	<b>■2</b>	<b>2</b>	<b>2</b>	
Chromium	ppm	<b>■&lt;1</b>	<b>-</b> <1	< 1	
Molybdenum	ppm	<b>42</b>	<b>47</b>	<b>□</b> 55	
Nickel	ppm	<b>■</b> <1	_2	< 1	
Titanium	ppm	0	<1	0	
Silver	ppm	<b>■</b> 0	0	<1	
Manganese	ppm	<b>1</b>	<b>2</b>	3	
Vanadium	ppm	0	<1	0	
ADDITIVE					
ADDITIVE:	7				
Calcium	ppm	■1782	<b>1638</b>	■ 1838	

**454** 

**1064** 

**0** 

**453** 

**1196** 

**1044** 

**0** 

**65** 



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## Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other 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.

Depot:VOLVO3387Unique No:10636125Signed:Don BaldridgeReport Date:11 Sep 2023

ppm

ppm

ppm

ppm

ppm

**534** 

**1107** 

**920** 

**0** 

**22** 

Magnesium

Phosphorus

Zinc

Barium

Boron



## **CONSTRUCTION EQUIPMENT**





