

## CONSTRUCTION EQUIPMENT SEC VOLVO A30G 752815 - DIESEL ENGINE



Sample No: VCP420493

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

Job No: SEC

SAMPLE	INFORMATION				
Sample Number		VCP420493	VCP395155	VCP370326	
Sample Date		17 Aug 2023	10 May 2023	08 Jan 2023	
Machine Hours		1445	964	430	
Oil Hours		500	500	500	
Oil Changed		Changed	Changed	Changed	
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	
VOLVO	ITION				
OIL COND	IIIUN		<u> </u>		
Visc @ 100°C	cSt	<u> </u>	<u> </u>	▲ 10.43	
Base Number (BN)	, , ,	■9.9	9.4	<b>6.7</b>	
Oxidation (PA)	%	78	75	58	
VOLVO					
CONTAMI	INATION				
Soot %	%	<b>0.2</b>	□0.2	□0.3	
Nitration (PA)	%	58	72	81	
Sulfation (PA)	%	61	61	52	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	□ 0.7	
Silicon	ppm	<b>11.0</b>	9	<b>1</b> 43	
Sodium	ppm	<b>2</b>	<b>-</b> <1	<b>3</b>	
Potassium	ppm	<b>2</b>	3	7	
	FF	_			
VOLVO	TAIC				
WEAR MI	ETALS		<u> </u>		
Iron	ppm	■8	<b>1</b> 1	<b>2</b> 1	
Copper	ppm	<u>^</u> 29	<u> </u>	<u></u> 507	
Lead	ppm	■0	<b>0</b>	<b>1</b>	
Tin	ppm	<b>■&lt;1</b>	<b></b> <1	■3	
Aluminum	ppm	<b>1</b>	<b>-</b> <1	<b>5</b>	
Chromium	ppm	<b>■&lt;1</b>	<b>-</b> <1	<b></b> <1	
Molybdenum	ppm	■39	<b>4</b> 5	■ 86	
Nickel	ppm	<b>0</b>	<b>=</b> <1	■0	
Titanium	ppm	0	0	0	
Silver	ppm	<b>□</b> <1	<1	2	
Manganese	ppm	<b>■</b> <1	2	5	
Vanadium	ppm	0	0	0	
VOLVO					
ADDITIVE	23				
Calcium	ppm	<b>1768</b>	■1863	<b>2331</b>	
Magnesium	ppm	<b>478</b>	447	43	
Zinc	ppm	<b>1106</b>	<b>1175</b>	1213	
Phosphorus	ppm	■938	974	<b>1</b> 031	
Barium	ppm	<b>■2</b>	<b>0</b>	□0	
			<b>—</b> 60	- F0	



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## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal. Fuel content negligible. 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:VOLVO4596Unique No:10633979Signed:Sean FeltonReport Date:08 Sep 2023

ppm

Boron



## **CONSTRUCTION EQUIPMENT**





