

## CONSTRUCTION EQUIPMENT 621032 APTIM VOLVO A35G 340083 - DIESEL ENGINE



Sample No: VCP432140

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

**Job No:** 621032 APTIM

VOLVO					
SAMPLE II	NFORMATION				
Sample Number	-	VCP432140	VCP395732	VCP340004	
Sample Date		24 Oct 2023	08 Feb 2023	31 Aug 2022	
Machine Hours		5943	5438	4966	
Oil Hours		500	500	500	
Oil Changed		Changed	Changed	Changed	
Sample Status		ABNORMAL	ATTENTION	NORMAL	
OIL CONDI	TION				
Visc @ 100°C	cSt	<b>12.0</b>	<u>▲</u> 12.3	<b>12.6</b>	
Base Number (BN)	mg KOH/g	■9.3	9.5	■9.7	
Oxidation (PA)	%	79	80	94	
VOLVO	IATION .				
CONTAMI	NATIUN				
Water	%	NEG	NEG	NEG	
Soot %	%	<b>0.4</b>	0.3	□ 0.5	
Nitration (PA)	%	64	68	89	
Sulfation (PA)	%	60	61	69	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	■ 0.9	<1.0	
Silicon	ppm	<u>^</u> 23	<b>5</b>	<b>4</b>	
Sodium	ppm	<b>■</b> 3	2	■3	
Potassium	ppm	<b>0</b>	<b>0</b>	< 1	
WEAR ME	TALS				
Iron	ppm	<b>■</b> 20	<b>1</b> 9	<b>2</b> 0	
Copper	ppm	<b>2</b>	<b>1</b>	<b>2</b>	
Lead	ppm	<b>■&lt;1</b>	<b>1</b>	<b>1</b>	
Tin	ppm	<b>1</b>	<b>1</b>	<b>2</b>	
Aluminum	ppm	<u> </u>	<b>2</b>	<b>4</b>	
Chromium	ppm	<b>■&lt;1</b>	<b>-</b> <1	<b>-</b> <1	
Molybdenum	ppm	<b>41</b>	<b>4</b> 0	■38	
Nickel	ppm	<b>1</b>	<b>-</b> <1	<b>0</b>	
Titanium	ppm	<1	0	<1	
Silver	ppm	<b>■</b> 0	<b>0</b>	<1	
Manganese	ppm	<b>1</b>	<b>-</b> <1	<b>-</b> <1	
Vanadium	ppm	<1	0	<1	
ADDITION					
Calcium	ppm	<b>1572</b>	□1592	□1522	
Magnesium	ppm	<b>■</b> 505	<b>489</b>	<b>448</b>	
Zinc	ppm	■1086	1041	□ 1027	
Phosphorus	ppm	■904	■843	■846	
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## Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot:VOLVO0093Unique No:10752972Signed:Don BaldridgeReport Date:23 Nov 2023

ppm

ppm

Barium

Boron

**0** 

**33** 



## **CONSTRUCTION EQUIPMENT**





