

# CONSTRUCTION EQUIPMENT VOLVO A45G 752123 - DIESEL ENGINE



Sample No: VCP447599

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

Job No:

VOLVO					
SAMPLE II	NFORMATION				
Sample Number		VCP447599			
Sample Date		18 Jan 2024			
Machine Hours		569			
Oil Hours		0			
Oil Changed		Changed			
Sample Status		ABNORMAL			
OIL CONDI	TION				
Visc @ 100°C	cSt	<b>▲</b> 11.1			
Base Number (BN)		<b>5.9</b>			
Oxidation (PA)	%	59			
Oxidation (17t)	70	33			
VOLVO					
CONTAMIN	_				
Water	%	NEG			
Soot %	%	■ 0.2			
Nitration (PA)	%	78			
Sulfation (PA)	%	52			
Glycol	%	NEG			
Fuel	%	■ 0.3			
Silicon	ppm	<b>21</b>			
Sodium	ppm	<b>3</b>			
Potassium	ppm	<b>■2</b>			
VOLVO					
WEAR METALS					
Iron	ppm	<b>12</b>			
Copper	ppm	<b>▲</b> 388			
Lead	ppm	<b>7</b>			
Tin	ppm	<b>■</b> 3			
Aluminum	ppm	<b>■2</b>			
Chromium	ppm	■1			
Molybdenum	ppm	<b>□77</b>			
Nickel	ppm	<b>■4</b>			
Titanium	ppm	0			
Silver	ppm	■0			
Manganese	ppm	<b>1</b>			
Vanadium	ppm	<1			
VOLVO					
ADDITIVE:	2				
Calcium	ppm	□2049			
Magnesium	ppm	80			
Zinc	ppm	<b>1157</b>			
Phosphorus	ppm	<b>1012</b>			
Barium	ppm	<b>■</b> 0			
Boron	ppm	■28			



#### **ALTA EQUIPMENT COMPANY**

5151 DR MARTIN LUTHER KING BLVD FORT MYERS, FL US 33905 Contact: TODD LARK tlark@altaequipfl.com

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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. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. 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:VOLVO0090Unique No:10843062Signed:Don BaldridgeReport Date:25 Jan 2024



## **CONSTRUCTION EQUIPMENT**





