CONSTRUCTION EQUIPMENT 594443 TOEBE VOLVO A40 353380 - DIESEL ENGINE



Sample No: VCP435463 **Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 Job No: 594443 TOEBE

VOLVO

SAMPLE I	NFORMATION			
Sample Number	-	VCP435463		
Sample Date		11 Sep 2023		
Machine Hours		554		
Oil Hours		554		
Oil Changed		Changed		
Sample Status		ABNORMAL		
OIL COND	TION			
			-	
Visc @ 100°C	cSt	▲ 11.0		
Base Number (BN)		5.7		
Oxidation (PA)	%	57		
VOLVO				
CONTAMI	NATION			
Soot %	%	0.2		
Nitration (PA)	%	79		
Sulfation (PA)	%	53		
Glycol	%	0.0		
Fuel	%	0.6		
Silicon	ppm	33		
Sodium	ppm	4		
Potassium	ppm	4		
WEAR ME	TALS			
Iron	ppm	20		
Copper	ppm	<u> </u>		
Lead	ppm	1		
Tin	nnm	a 2		



ALTA EQUIPMENT COMPANY - METRO WEST

56195 PONTIAC TRAIL NEW HUDSON, MI US 48165 Contact: PAUL CONZ paul.conz@altg.com T: (313)348-8861 F: (248)356-2029

Diagnosis

Oil and filter change at the time of sampling has been noted. 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.

Copper	ppm	A 278					
Lead	ppm	1					
Tin	ppm	3					
Aluminum	ppm	6					
Chromium	ppm						
Molybdenum	ppm	90					
Nickel	ppm	2					
Titanium	ppm	0					
Silver	ppm	0					
Manganese	ppm	4					
Vanadium	ppm	0					
ADDITIVES							
Calcium	ppm	2303					

Calcium	ppm	2303	 	
Magnesium	ppm	19	 	
Zinc	ppm	1316	 	
Phosphorus	ppm	1073	 	
Barium	ppm	0	 	
Boron	ppm	50	 	

Depot: VOLVO2990 Unique No: Signed: Report Date:

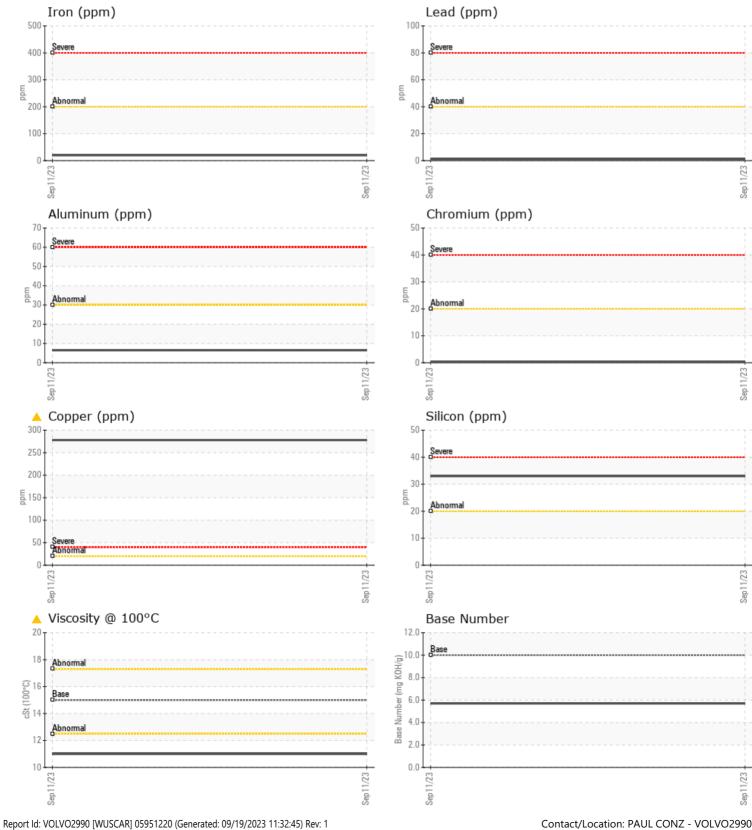
10647179 Jonathan Hester 19 Sep 2023

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



Contact/Location: PAUL CONZ - VOLVO2990