CONSTRUCTION EQUIPMENT SWA399456 VOLVO A40 353380 - DIESEL ENGINE



Sample No: VCP393320 Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 Job No: SWA399456

VOLVO

SAMPLE INFORMATION

Sample Number	-	VCP393320	VCP435463	
Sample Date		31 Oct 2023	11 Sep 2023	
Machine Hours		733	554	
Oil Hours		0	554	
Oil Changed		Changed	Changed	
Sample Status		SEVERE	ABNORMAL	
OIL CONDI				
Visc @ 100°C	cSt	12.9	1 1.0	
Base Number (BN)	mg KOH/g	9.9	5.7	
Oxidation (PA)	%	66	57	
CONTAMI				
	-	-	- <u>-</u>	
Soot %	%	0.1	0.2	
Nitration (PA)	%	46	79	
Sulfation (PA)	%	55	53	
Glycol	%	0.20	0.0	
Fuel	%	<1.0	0.6	
Silicon	ppm	8	33	
Sodium	ppm	6 3	4	
Potassium	ppm	3	4	

ALTA EQUIPMENT COMPANY - METRO WEST

56195 PONTIAC TRAIL NEW HUDSON, MI US 48165 Contact: PAUL ELZERMAN paul.elzerman@altaequipment.com T: (248)356-5200 F: (248)356-2029

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.The copper level is abnormal. Sodium and/or potassium levels are high. Test for glycol is positive. The BN result indicates that there is suitable alkalinity remaining in the oil.

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WEAR METALS					
Iron	ppm	6	20		
Copper	ppm	<u> </u>	2 78		
Lead	ppm	□ <1	1		
Tin	ppm	0	3		
Aluminum	ppm	 <1	6		
Chromium	ppm		 <1		
Molybdenum	ppm	53	90		
Nickel	ppm	2	2		
Titanium	ppm	0	0		
Silver	ppm	0	0		
Manganese	ppm	■ <1	4		
Vanadium	ppm	0	0		

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ADDITIVES					
Calcium	ppm	1371	2303		
Magnesium	ppm	638	19		
Zinc	ppm	1051	1316		
Phosphorus	ppm	873	1073		
Barium	ppm	0	0		
Boron	ppm	30	50		

 Depot:
 VOLVO2990

 Unique No:
 10724884

 Signed:
 Jonathan Hester

 Report Date:
 08 Nov 2023

Report Id: VOLVO2990 [WUSCAR] 05996524 (Generated: 11/08/2023 10:19:20) Rev: 1

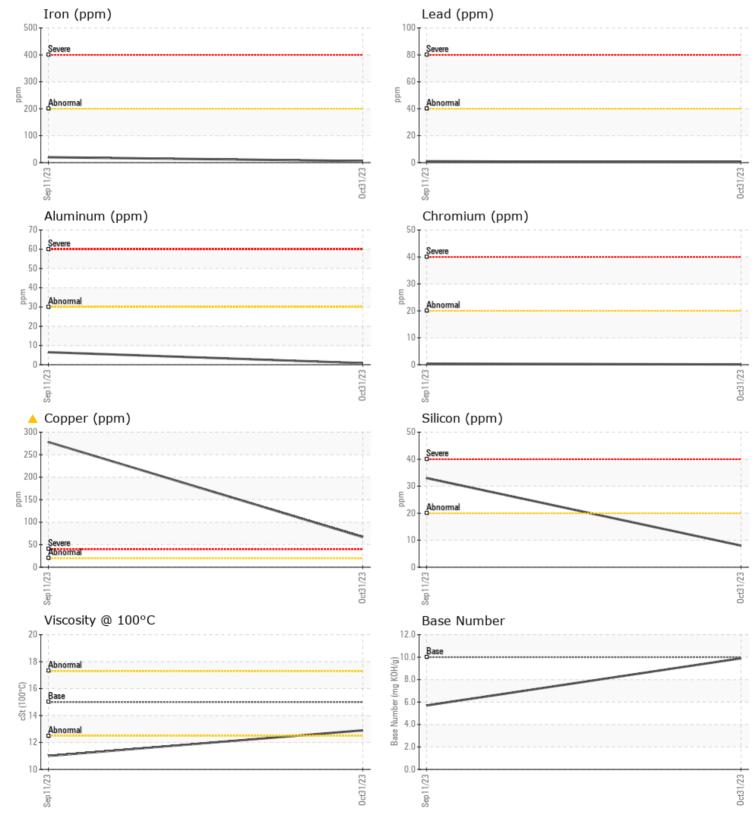
Contact/Location: PAUL ELZERMAN - VOLVO2990

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



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