## **CONSTRUCTION EQUIPMENT** 580154 RENTAL VOLVO EC350 314509 - DIESEL ENGINE

Sample No: VCP412652 **Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

VOLVO

Job No:

580154 RENTAL

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## **SAMPLE INFORMATION**

Sample Number		VCP412652	 	
Sample Date		07 Aug 2023	 	
Machine Hours		608	 	
Oil Hours		608	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
OIL CONDI				
Visc @ 100°C	cSt	🔺 10.3	 	
Base Number (BN)	mg KOH/g	5.1	 	
Oxidation (PA)	%	70	 	
CONTAMIN				
	IATION			
Soot %	%	0.1	 	
Nitration (PA)	%	88	 	
Sulfation (PA)	%	61	 	
Glycol	%	NEG	 	
Fuel	%	0.7	 	
Silicon	ppm	<b>30</b>	 	
Sodium	ppm	2	 	
Potassium	ppm	<b>4</b>	 	

WEAR I	METALS			l I
Iron	ppm	14	 	
Copper	ppm	<u> </u>	 	
Lead	ppm	4	 	
Tin	ppm	2	 	
Aluminum	ppm	2	 	
Chromium	ppm	0	 	
Molybdenum	ppm	83	 	
Nickel	ppm	0	 	
Titanium	ppm	3	 	
Silver	ppm	0	 	
Manganese	ppm	3	 	
Vanadium	ppm	0	 	

ADDITIVES						
Calcium	ppm	2228				
Magnesium	ppm	53				
Zinc	ppm	<b>1229</b>				
Phosphorus	ppm	972				
Barium	ppm	0				
Boron	ppm	23				



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

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.

Depot: Unique No: Signed: Report Date:

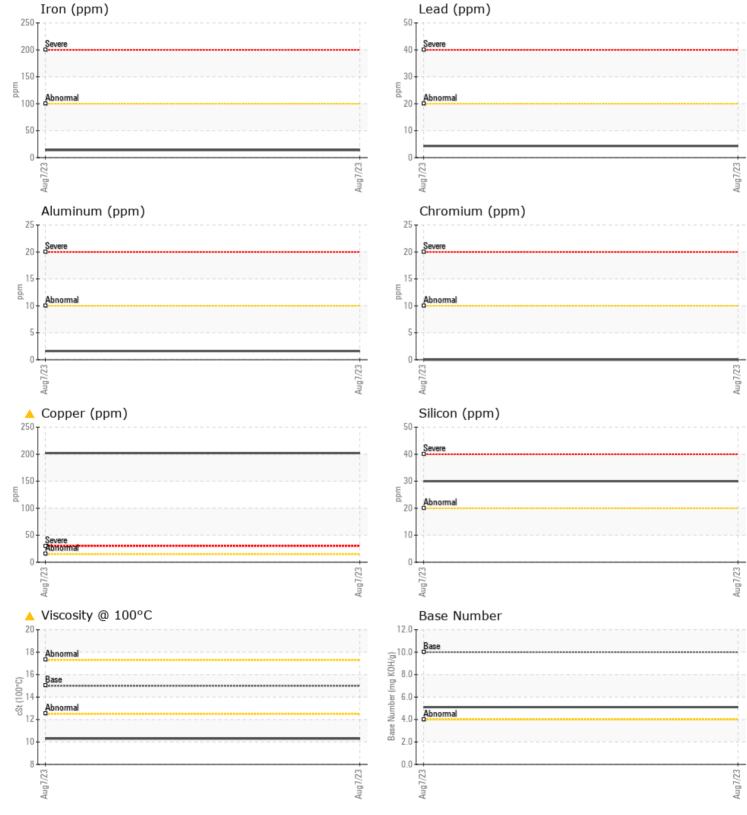
VOLVO2990 10604673 Jonathan Hester 17 Aug 2023

## **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



Report Id: VOLVO2990 [WUSCAR] 05924726 (Generated: 08/21/2023 15:49:46) Rev: 1

Contact/Location: PAUL ELZERMAN - VOLVO2990