CONSTRUCTION EQUIPMENT W14891 VOLVO A40G 353432 - DIESEL ENGINE



 Sample No:
 VCP441497

 Oil Type:
 VOLVO ULT

VOLVO

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No:

W14891

	INFORMATION			
Sample Number	_	VCP441497	 	
Sample Date		27 Oct 2023	 	
Machine Hours		954	 	
Oil Hours		1000	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
OIL CON	DITION			
Visc @ 100°C	cSt	A 11.1	 	
Base Number (BN	Ŋ mg KOH/g	4.6	 	
Oxidation (PA)	%	59	 	
CONTAM	AINATION			
Soot %	%	0.3	 	
Nitration (PA)	%	78	 	
Sulfation (PA)	%	62	 	
Glycol	%	NEG	 	
Fuel	%	0.5	 	
Silicon	ppm	29	 	
Sodium	ppm	5	 	
Potassium	ppm	■ 4	 	

WEAR METALS

Iron	ppm	20	 	
Copper	ppm	<u> </u>	 	
Lead	ppm	0	 	
Tin	ppm	3	 	
Aluminum	ppm	3	 	
Chromium	ppm	 <1	 	
Molybdenum	ppm	82	 	
Nickel	ppm	1	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	3	 	
Vanadium	ppm	0	 	

ADDITIVES					
Calcium	ppm	2071			
Magnesium	ppm	114			
Zinc	ppm	1264			
Phosphorus	ppm	1006			
Barium	ppm	0			
Boron	ppm	1 9			



HOUSBY HEAVY EQUIPMENT, LLC

4410 SE 4 MILE DR ANKENY, IA US 50021 Contact: RANDY VANDERLEEST rvanderleest@housby.com T: F: (515)964-2865

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:
 VOLV0080

 Unique No:
 10722519

 Signed:
 Jonathan Hester

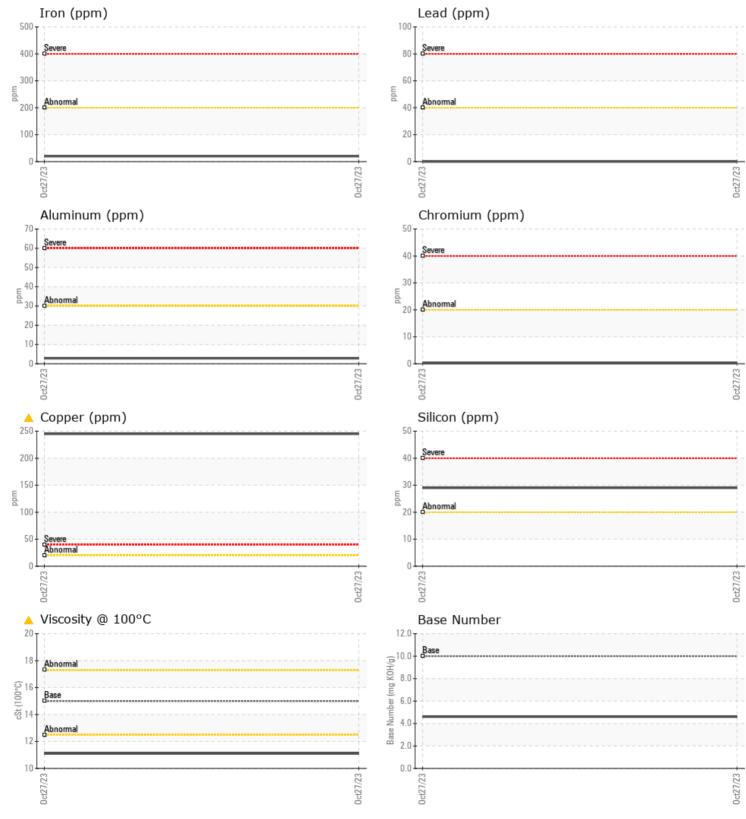
 Report Date:
 03 Nov 2023

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



Report Id: VOLVO0080 [WUSCAR] 05994159 (Generated: 11/03/2023 10:51:47) Rev: 1

Contact/Location: RANDY VANDERLEEST - VOLVO0080