CONSTRUCTION EQUIPMENT 594098 TOEBE VOLVO L220H 3481 - DIESEL ENGINE



Sample No:VCP382093Oil Type:VOLVO ULTRA

594098 TOFBF

VOLVO

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No:

SAMPLE INFORMATION VCP382093 Sample Number Sample Date 21 Aug 2023 Machine Hours 508 Oil Hours 508 Oil Changed Changed ABNORMAL Sample Status **OIL CONDITION** Visc @ 100°C cSt **11.4** Base Number (BN) mg KOH/g 5.6 Oxidation (PA) % 56

CONTAM	MINATION			
Soot %	%	0.2	 	
Nitration (PA)	%	75	 	
Sulfation (PA)	%	51	 	
Glycol	%	NEG	 	
Fuel	%	0.5	 	
Silicon	ppm	27	 	
Sodium	ppm	3	 	
Potassium	ppm	6	 	

WEAR METAL

WEAN I	METAL3			ļ
Iron	ppm	13	 	
Copper	ppm	<u> </u>	 	
Lead	ppm	<1	 	
Tin	ppm	2	 	
Aluminum	ppm	0	 	
Chromium	ppm	 <1	 	
Molybdenum	ppm	94	 	
Nickel	ppm	 <1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	3	 	
Vanadium	ppm	0	 	

ADDITI	IVES			
Calcium	ppm	2321	 	
Magnesium	ppm	17	 	
Zinc	ppm	1251	 	
Phosphorus	ppm	1063	 	
Barium	ppm	2	 	
Boron	ppm	57	 	



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.

 Depot:
 VOLVO2990

 Unique No:
 10618339

 Signed:
 Sean Felton

 Report Date:
 25 Aug 2023

Report Id: VOLVO2990 [WUSCAR] 05933068 (Generated: 08/25/2023 16:13:26) Rev: 1

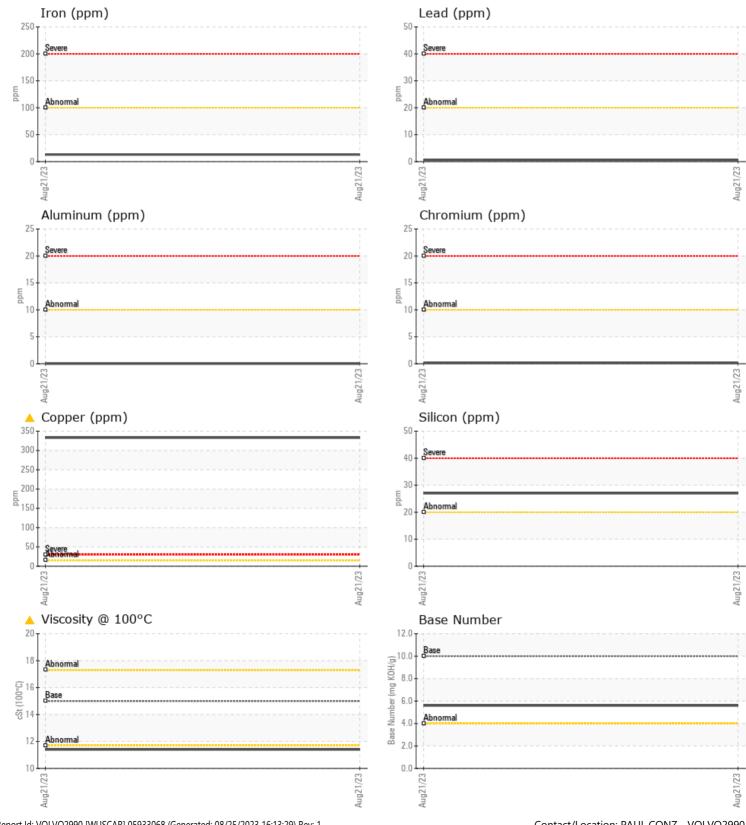
Contact/Location: PAUL CONZ - VOLVO2990

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



Report Id: VOLVO2990 [WUSCAR] 05933068 (Generated: 08/25/2023 16:13:29) Rev: 1

Contact/Location: PAUL CONZ - VOLVO2990