CONSTRUCTION EQUIPMENT SWA105627-30 VOLVO A40G 352082 - DIESEL ENGINE



Sample No:VCP404553Oil Type:VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3Job No:SWA105627-30

SAMPLE INFORMATION

VOLVO

Sample Number		VCP404553	VCP349817	
Sample Date		03 Apr 2023	14 Mar 2022	
Machine Hours		6357	5908	
Oil Hours		0	0	
Oil Changed		Changed	Not Changd	
Sample Status		ABNORMAL	ATTENTION	
OIL COND	ITION			
Visc @ 100°C	cSt	12.3	9.77	
Base Number (BN)) mg KOH/g	7.2	6.9	
Oxidation (PA)	%	61	72	
CONTAM	INATION			
Water	%	NEG	NEG	
Soot %	%	0.3	0	
Nitration (PA)	%	73	85	
Sulfation (PA)	%	59	58	
Glycol	%	0.0	NEG	
Fuel	%	0.7	0.3	
Silicon	ppm	12	5	
Sodium	ppm	192	23	
Potassium	ppm	1 9	1	
WEAR M	TAIS			
WLAN M				

WEAK I	METALS			
Iron	ppm	76	22	
Copper	ppm	<u> </u>	27	
Lead	ppm	1	1	
Tin	ppm	 <1	<1	
Aluminum	ppm	1 4	3	
Chromium	ppm	2	 <1	
Molybdenum	ppm	99	62	
Nickel	ppm	🔺 13	2	
Titanium	ppm	0	0	
Silver	ppm	0	2	
Manganese	ppm	2	<1	
Vanadium	ppm	<1	0	

ADDITIVES							
Calcium	ppm	1751	1157				
Magnesium	ppm	1417	1035				
Zinc	ppm	1879	1281				
Phosphorus	ppm	1524	1140				
Barium	ppm	0	0				
Boron	ppm	1 3	12				



ALTA EQUIPMENT COMPANY

5210 REESE ROAD DAVIE, FL US 33314 Contact: N. FACEY nfacey@altaequipfl.com T: (954)581-4744 F: (954)583-0318

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.The copper level is abnormal. Exhaust valve wear is indicated. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). Fuel content negligible. Test for glycol is negative. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

 Depot:
 VOLVO0095

 Unique No:
 10416473

 Signed:
 Doug Bogart

 Report Date:
 12 Apr 2023

Report Id: VOLVO0095 [WUSCAR] 05813681 (Generated: 01/25/2024 13:54:18) Rev: 1

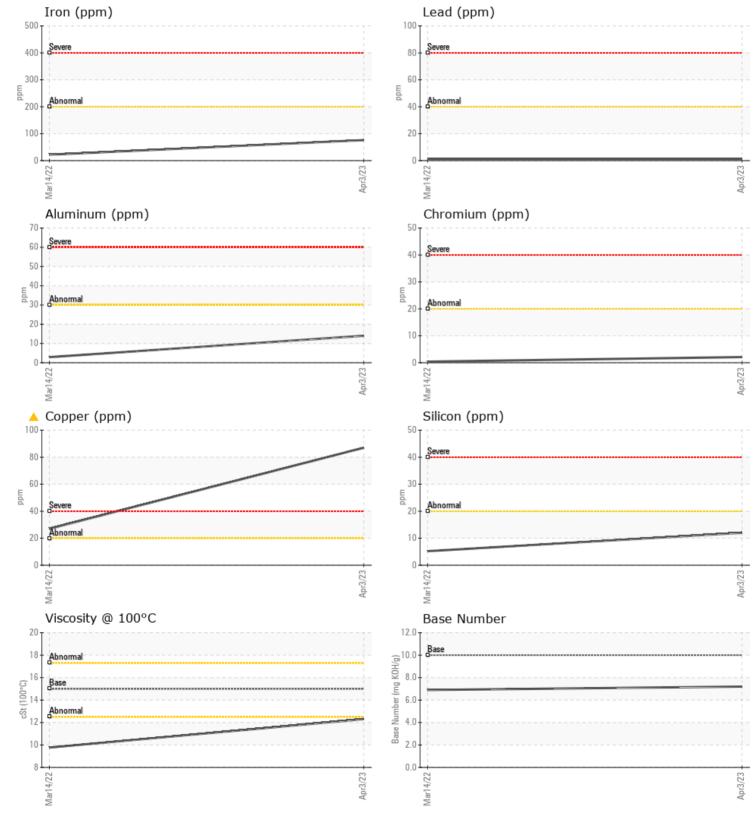
Contact/Location: N. FACEY - VOLVO0095

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



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