CONSTRUCTION EQUIPMENT 688707 VOLVO L220H 3481 - DIESEL ENGINE



Sample No: VCP446984

VOLVO

Oil Type:	VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:	688707

SAMPLE INFORMATION VCP446984 Sample Number VCP382093 Sample Date 12 Apr 2024 21 Aug 2023 Machine Hours 1047 508 Oil Hours 500 508 Oil Changed N/A Changed Sample Status ABNORMAL ABNORMAL **OIL CONDITION** Visc @ 100°C cSt 12.7 11.4 Base Number (BN) mg KOH/g 5.6 7.6 Oxidation (PA) 56 % 57 CONTAMINATION NEG % NEG Water Soot % % 0.2 0.2 Nitration (PA) % 63 75 % 53 Sulfation (PA) 51 Glycol % NEG NEG Fuel % 0.5 <1.0 Silicon ppm 9 27 Sodium ppm 1 3 Potassium ppm 4 6

WEAR N	METALS			
Iron	ppm	10	13	
Copper	ppm	🔺 55	▲ 333	
Lead	ppm	 <1	<1	
Tin	ppm	2	2	
Aluminum	ppm	2	0	
Chromium	ppm	■ <1	<1	
Molybdenum	ppm	62	94	
Nickel	ppm	1	 <1	
Titanium	ppm	<1	0	
Silver	ppm	0	0	
Manganese	ppm	1	3	
Vanadium	ppm	<1	0	

ADDITIVES							
Calcium	ppm	1173	2321				
Magnesium	ppm	834	17				
Zinc	ppm	1213	1251				
Phosphorus	ppm	1011	1063				
Barium	ppm	2	2				
Boron	ppm	4	57				



ALTA EQUIPMENT COMPANY - METRO WEST 56195 PONTIAC TRAIL NEW HUDSON, MI US 48165 Contact: PAUL ELZERMAN paul.elzerman@altaequipment.com T: (248)356-5200

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Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.The copper level has decreased, but is still abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal. There is no indication of any contamination 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:
 VOLVO2990

 Unique No:
 10996682

 Signed:
 Sean Felton

 Report Date:
 29 Apr 2024

Report Id: VOLVO2990 [WUSCAR] 06161259 (Generated: 04/29/2024 14:30:19) Rev: 1

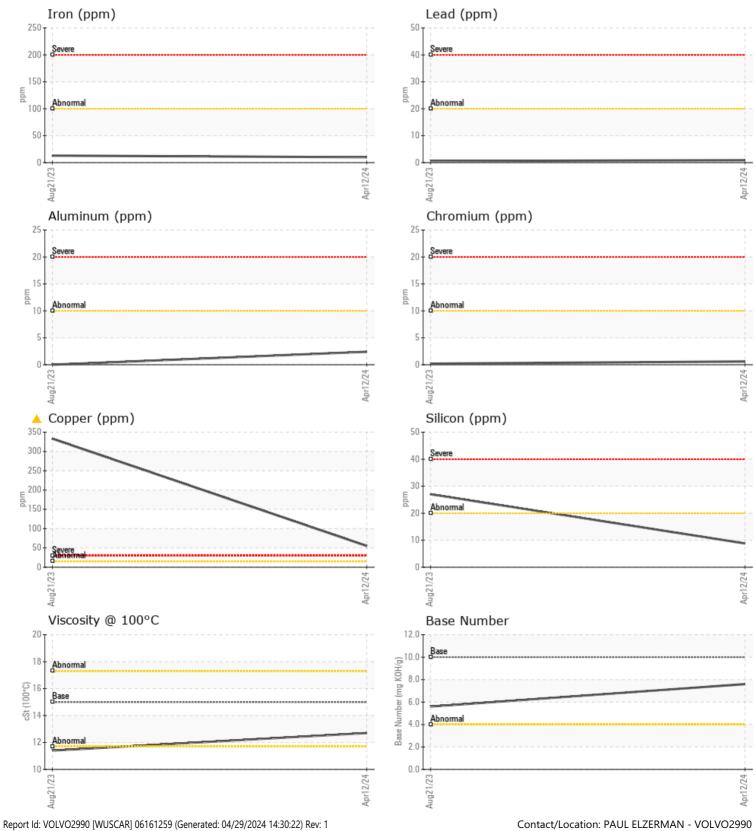
Contact/Location: PAUL ELZERMAN - VOLVO2990

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



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