

CONSTRUCTION EQUIPMENT A10550 VOLVO L110H 632554 - DIESEL ENGINE



Sample No: VCP421956
Oil Type: MOBIL 15W40

Job No: A10550

SAMPLE INFORMATION			
Sample Number	VCP421956	 	
Sample Date	23 Jun 2023	 	
Machine Hours	610	 	
Oil Hours	610	 	
Oil Changed	Changed	 	
Sample Status	ABNORMAL	 	
Sample Date 23 Jun 2023 Machine Hours 610 Dil Hours 610 Dil Changed			

OIL CONDI	TION			
Visc @ 100°C	cSt	12.4	 	
Base Number (BN)	mg KOH/g	■9.8	 	
Oxidation (PA)	%	77	 	

CONTAN	MINATION			
Soot %	%	■ 0.3	 	
Nitration (PA)	%	59	 	
Sulfation (PA)	%	61	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	12	 	
Sodium	ppm	6	 	
Potassium	ppm	4	 	

WEAR N	METALS			
Iron	ppm	■34	 	
Copper	ppm	14	 	
Lead	ppm	2	 	
Tin	ppm	■3	 	
Aluminum	ppm	<u> </u>	 	
Chromium	ppm	4	 	
Molybdenum	ppm	44	 	
Nickel	ppm	■ 0	 	
Titanium	ppm	<1	 	
Silver	ppm		 	
Manganese	ppm	2	 	
Vanadium	ppm	0	 	

ADDIT	VES			
Calcium	ppm	1640	 	
Magnesium	ppm	683	 	
Zinc	ppm	1222	 	
Phosphorus	ppm	1005	 	
Barium	ppm	0	 	
Boron	ppm	46	 	



HMR ASSOCIATES

PO BOX 485 TOUGHKENAMON, PA US 19374

Contact: SERVICE MANAGER

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Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other metal levels are typical for a new component breaking in. 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:HMRTOUUnique No:10536803Signed:Jonathan HesterReport Date:03 Jul 2023



CONSTRUCTION EQUIPMENT





