

CONSTRUCTION EQUIPMENT 3688BS VOLVO A40F 12323 - DIESEL ENGINE



Sample No: VCP402095

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No: 3688BS

SAMPLE INFORMAT	ION		
Sample Number	VCP402095	VCE226039	
Sample Date	20 Jul 2023	28 Jan 2014	
Machine Hours	9360	260	
Oil Hours	20	0	
Oil Changed	Not Changd	Not Changd	
Sample Status	NORMAL	NORMAL	

OIL CONDIT	TION			
Visc @ 100°C	cSt	■13.8	10.63	
Base Number (BN)	mg KOH/g	■9.5		
Oxidation (PA)	%	49	□ 56	

CONTAN	MINATION			
Soot %	%	■ 0.1	■0.1	
Nitration (PA)	%	43	58	
Sulfation (PA)	%	46	47	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	< 1.0	
Silicon	ppm	■ 4	2 5	
Sodium	ppm	6	5	
Potassium	ppm	■ 3	5	

WEAR N	METALS			
Iron	ppm	10	1 4	
Copper	ppm	■<1	2 0	
Lead	ppm	■<1	1	
Tin	ppm	■<1	0	
Aluminum	ppm	4	2	
Chromium	ppm	■<1	- <1	
Molybdenum	ppm	■ 51	■39	
Nickel	ppm	■<1	2	
Titanium	ppm	3	<1	
Silver	ppm	■ 0	0	
Manganese	ppm	■ <1	3	
Vanadium	ppm	0	0	

VES				
ppm	1338	■1215		
ppm	871	776		
ppm	1278	■986		
ppm	1044	■835		
ppm	□ 0	■0		
ppm	16	4 7		
	ppm ppm ppm ppm	ppm 871 ppm 1278 ppm 1044 ppm 0	ppm 871 776 ppm 1278 986 ppm 1044 835 ppm 0 0	ppm 871 776 ppm 1278 986 ppm 1044 835 ppm 0 0



PENNSY SUPPLY

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Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The wear metal levels do not reflect the reported failure. 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 suitable for further service.

Depot:PENEPHUnique No:10587686Signed:Doug BogartReport Date:06 Aug 2023



CONSTRUCTION EQUIPMENT





GRAPH

