

CONSTRUCTION EQUIPMENT

SW-23072-2 IAA VOLVO L90H 626380 - DIESEL ENGINE



Sample No: VCP414375

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

Job No: SW-23072-2 IAA

VOLVO					
	NFORMATION				
Sample Number	-	VCP414375	VCP400938	VCP399621	
Sample Date		29 Aug 2023	01 May 2023	07 Feb 2023	
Machine Hours		1722	1040	546	
Oil Hours		500	500	546	
Oil Changed		Changed	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	
OIL CONDI	TION				
Visc @ 100°C	cSt	12.1	13.3	12.6	
Base Number (BN)	mg KOH/g	■9.6	■8.7	■9.9	
Oxidation (PA)	%	63	58	73	
CONTAMIN	NATION				
Soot %	%	■0.3	0.2	□ 0.2	
Nitration (PA)	%	58	50	54	
Sulfation (PA)	%	55	48	59	
Glycol	%	NEG	NEG	NEG	
Fuel	%	■1.2	<1.0	<1.0	
Silicon	ppm	■ 5	5	1 2	
Sodium	ppm	■2		■3	
Potassium	ppm	■<1	- <1	■8	
WEAR ME	TALS				
Iron	ppm	15	1 3	■31	
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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. All component wear rates are normal. 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.

WEAR M	IETALS				
Iron	ppm	1 5	1 3	3 1	
Copper	ppm	1	- <1	5	
Lead	ppm	-< 1	0	2	
Tin	ppm	1	1	2	
Aluminum	ppm	■ 3	■ 3	1 1	
Chromium	ppm	1	1	2	
Molybdenum	ppm	59	6 1	■30	
Nickel	ppm	■0	- <1	- <1	
Titanium	ppm	<1	<1	<1	
Silver	ppm	■ <1	0	- <1	
Manganese	ppm	-< 1	< 1	3	
Vanadium	ppm	<1	0	<1	

ADDITIVES						
Calcium	ppm	1170	■1275	1077		
Magnesium	ppm	981	939	470		
Zinc	ppm	1255	1210	■825		
Phosphorus	ppm	■992	1028	689		
Barium	ppm	0	□0	0		
Boron	ppm	■ 3	1 5	■36		

Depot:VOLVO8770Unique No:10634662Signed:Don BaldridgeReport Date:08 Sep 2023



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GRAPHS

