

CONSTRUCTION EQUIPMENT
SPM595020 ROEBUCK CO VOLVO ECR145E 310615 - DIESEL ENG

Sample No: VCP432642

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

Job No: SPM595020 ROEBUCK CO

SAMPLE IN	FORMATION				
Sample Number		VCP432642	VCP356917	VCP335537	
Sample Date		22 Aug 2023	14 Apr 2022	29 Sep 2021	
Machine Hours		4306	3078	2494	
Oil Hours		0	0	0	
Oil Changed		Changed	Changed	Changed	
Sample Status		NORMAL	MARGINAL	ABNORMAL	
OIT CONDI.	TION				
Visc @ 100°C	cSt	13.3	□13.3	□ 13.1	
Base Number (BN)	mg KOH/g	■9.8	11.5		
Oxidation (PA)	%	57	91	79	
CONTAMIN	IATION				
Soot %	%	■ 0.2	□ 0.3	□ 0.2	
All (DA)	0/			6.6	

Soot % © 0.2 © 0.3 © 0.2 Nitration (PA) % 57 77 66	
Nitration (PA) % 57 77 66	
Sulfation (PA) % 50 66 60	
Glycol % NEG NEG	
Fuel % <1.0 <1.0	
Silicon ppm □5 □7 □6	
Sodium ppm ■2 ■2 ■3	
Potassium ppm 	

WEAR I	METALS				
Iron	ppm	■23	□33	5 4	
Copper	ppm	■ 4	3	□ 3	
Lead	ppm	0	< 1	- <1	
Tin	ppm	■<1	- <1	- <1	
Aluminum	ppm	■8	△ 13	<u> </u>	
Chromium	ppm	■<1	2	■3	
Molybdenum	ppm	61	40	■31	
Nickel	ppm	■0	0	□ 0	
Titanium	ppm	<1	<1	0	
Silver	ppm	■ 0	0	0	
Manganese	ppm	■<1	< 1	- <1	
Vanadium	ppm	<1	0	0	

ADDIT	Zav				
Calcium	ppm	1275	■1813	■ 1830	
Magnesium	ppm	■992	542	493	
Zinc	ppm	1302	1222	1102	
Phosphorus	ppm	■1083	1011	■936	
Barium	ppm	0	0	0	
Boron	ppm	2	4 0	6 3	



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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. 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: VOLVO0093 **Unique No:** 10621103 Signed: Don Baldridge Report Date: 28 Aug 2023



CONSTRUCTION EQUIPMENT





GRAPHS

