

CONSTRUCTION EQUIPMENT 347205 VOLVO EC220D 210021 - DIESEL ENGINE



Sample No: VCP414631

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

Job No: 347205

Sample Number		VCP414631	VCP396229	VCP350161	
Sample Date		25 Aug 2023	09 Mar 2023	14 Feb 2022	
Machine Hours		4594	4469	4166	
Oil Hours		0	0	0	
Oil Changed		Changed	Changed	Changed	
Sample Status		NORMAL	NORMAL	ABNORMAL	
OIL CONDI	TION				
Visc @ 100°C	cSt	12.5	12.7	■13.6	
Base Number (BN)	mg KOH/g	■10.0	■10.3	■9.4	
Oxidation (PA)	%	74	79	81	
CONTAMIN	NATION				
Soot %	%	■0.2	□0.3	□ 0.4	
Nitration (PA)	%	49	63	89	
Sulfation (PA)	%	57	60	62	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	< 1.0	<1.0	
Silicon	ppm	6	1 2	1 6	
Sodium	ppm	1	2	5	
Potassium	ppm	1	0	2	
WEAR ME	TALS				
Iron	ppm	46	■80	<u></u> 168	
Copper	ppm	■ <1	1	■3	
Lead	ppm	■ <1	0	- <1	
Tin	ppm	■0	- <1	< 1	
Aluminum	ppm	6	1 0	△ 27	
Chromium	ppm	■4	- <1	2	
Molybdenum	ppm	42	4 1	■30	
Nickel	ppm	■0	0	 <1	
Titanium	ppm	0	0	<1	
Silver	ppm	■ 0	0	<1	
Manganese	ppm	■ <1	1	 < 1	
Vanadium	ppm	0	<1	<1	

1591

499

1014

■816

0

38

1665

630

1010

887

0

29



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Diagnosis

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 suitable for further service.

Depot:VOLVO0093Unique No:10622954Signed:Wes DavisReport Date:30 Aug 2023

ppm

ppm

ppm

ppm

ppm

ppm

1756

523

1125

910

0

52

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus



CONSTRUCTION EQUIPMENT





