

CONSTRUCTION EQUIPMENT SPM540449 VOLVO L220E 2194 - DIESEL ENGINE



Sample No: VCP404600

Oil Type: **DIESEL ENGINE OIL SAE 15W40**

Job No: SPM540449

SAMPLE INFORMATION				
Sample Number	VCP404600	VCP365279	VCP358392	
Sample Date	25 Apr 2023	10 Oct 2022	14 Apr 2022	
Machine Hours	24189	25053	25025	
Oil Hours	0	0	0	
Oil Changed	Changed	Not Changd	Not Changd	
Sample Status	NORMAL	NORMAL	NORMAL	

OIL CONDITION								
Visc @ 100°C	cSt	14.2	□13.7	■13.4				
Base Number (BN)	mg KOH/g	■8.9	□ 10.5	■10.8				
Oxidation (PA)	%	50	63	59				

CONTAN	MINATION				
Soot %	%	■0.1	□0.9	□ 0.7	
Nitration (PA)	%	38	68	68	
Sulfation (PA)	%	45	58	57	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	< 1.0	<1.0	
Silicon	ppm	■ 3	4	4	
Sodium	ppm	■ 0	□0	2	
Potassium	ppm	2	0	□0	

WEAR	METALS				
Iron	ppm	2	1 2	1 2	
Copper	ppm	■0	- <1	1	
Lead	ppm	0	1	- < 1	
Tin	ppm	■ 0	- <1	□ 0	
Aluminum	ppm	■<1	1	2	
Chromium	ppm	■ 0	- <1	- <1	
Molybdenum	ppm	60	□ 56	5 5	
Nickel	ppm	■ 0	- <1	□ 0	
Titanium	ppm	0	□ 0	0	
Silver	ppm	■ 0	0	<1	
Manganese	ppm	■<1	< 1		
Vanadium	ppm	0	0	0	

ADDITIVES					
Calcium	ppm	1096	1160	■1158	
Magnesium	ppm	1043	■873	■872	
Zinc	ppm	1383	1206	1138	
Phosphorus	ppm	1090	■1016	■ 1029	
Barium	ppm	0	0	0	
Boron	ppm	■ 0	■8	1 6	



WASTE MANAGEMENT - GARY

1508 SHERMAN ST GARY, IN US 46406

Contact: TARA RORK

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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: WASGARIN **Unique No:** 10457764 Signed: Wes Davis Report Date: 08 May 2023



CONSTRUCTION EQUIPMENT





