

CONSTRUCTION EQUIPMENT
SW-27009-2 CASTLE VA VOLVO EC350EL 310786 - HYDRAULICS



Oil Type: **VOLVO SUPER HYDRAULIC OIL 46**

Job No: SW-27009-2 CASTLE VA

Sample Number	VCP412572	VCP383489	VCP346990	
Sample Date	29 Nov 2023	06 Jan 2023	14 Mar 2022	
Machine Hours	8434	6328	4344	
Oil Hours	2090	2000	0	
Oil Changed	Changed	Changed	Changed	
Sample Status	NORMAL	NORMAL	NORMAL	
VOLVO				
OIL CONDITION				
Visc @ 40°C cSt	42.5	41.5	40.9	
Acid Number (AN) mg K	OH/g ■0.41	□0.41	□ 0.54	

CONTAMINATION					
Water	%	NEG	NEG	NEG	
Particles >4µr	m	158	■349	■3436	
Particles >6µr	m	64	1 05	1 74	
Particles > 14µ	um	11	9	□10	
ISO 4406:1999	9 (c)	14/13/11	16/14/10	19/13/10	
Silicon	ppm	6	5	□ 6	
Sodium	ppm	2	< 1	0	
Potassium	ppm	0	0	2	

WEAR N	METALS				
Iron	ppm	2	□ 4	7	
Copper	ppm	■8	1 0	1 6	
Lead	ppm	0	□0	- <1	
Tin	ppm	■ 0	■0	<1	
Aluminum	ppm	■<1	1	2	
Chromium	ppm	■ 4	2	□5	
Molybdenum	ppm	0	2	- <1	
Nickel	ppm	■ 0	0	□0	
Titanium	ppm	0	0	0	
Silver	ppm	0	0	0	
Manganese	ppm	-< 1	□0	- <1	
Vanadium	ppm	0	0	0	

ADDITIVES						
Calcium	ppm	102	151	■81		
Magnesium	ppm	14	2 8	2		
Zinc	ppm	420	472	■ 510		
Phosphorus	ppm	■342	■373	■399		
Barium	ppm	■ 0	□0	■0		
Boron	ppm	■ 0	■0	□0		



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Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: VOLVO8770 **Unique No:** 10776123 Signed: Wes Davis Report Date: 07 Dec 2023



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GRAPHS

