

CONSTRUCTION EQUIPMENT SENNEBOGEN 870 870.0.1004 - DIESEL ENGINE



Sample No: VCP431373

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

Job No:

SAMPLE INFORMATI	ION		
Sample Number	VCP431373	VCP411563	
Sample Date	27 Dec 2023	17 Jul 2023	
Machine Hours	7688	6800	
Oil Hours	500	500	
Oil Changed	Changed	Changed	
Sample Status	ABNORMAL	SEVERE	

OIL CONDI	FION			
Visc @ 100°C	cSt	12.1	▲ 11.4	
Base Number (BN)	mg KOH/g	6.4	■9.3	
Oxidation (PA)	%	114	88	

CONTAI	MINATION			
Water	%	NEG	NEG	
Soot %	%	■ 0.2	0.1	
Nitration (PA)	%	105	83	
Sulfation (PA)	%	69	61	
Glycol	%	NEG	NEG	
Fuel	%	△ 5.8	7.8	
Silicon	ppm	■3	4	
Sodium	ppm	■ 0	3	
Potassium	ppm	10	2	

VOLVO	45504			
WEAR	METALS			
Iron	ppm	16	7	
Copper	ppm	1	- <1	
Lead	ppm	■ 0	- <1	
Tin	ppm	■0	- <1	
Aluminum	ppm	2	 <1	
Chromium	ppm	■<1	0	
Molybdenum	ppm	45	□ 48	
Nickel	ppm	■ 0	0	
Titanium	ppm	■ 0	0	
Silver	ppm	■ 0	0	
Manganese	ppm	■ 0	- <1	
Vanadium	ppm	0	<1	

ADDIT	Zavi			
Calcium	ppm	1533	1778	
Magnesium	ppm	633	655	
Zinc	ppm	1187	1295	
Phosphorus	ppm	■928	1 020	
Barium	ppm	■ 3	0	
Boron	ppm	■21	■38	



DONJON MARINE 100 CENTRAL AVE HILLSIDE, NJ

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Diagnosis

We advise that you check the fuel injection system. 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 a moderate amount of fuel present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity.

Depot:DONHILNJUnique No:10835355Signed:Sean FeltonReport Date:22 Jan 2024



CONSTRUCTION EQUIPMENT





GRAPHS

