



MARK THORNDYKE - MER MADE 2.0 VOLVO PENTA 30132011825 (S/N 20132011825) - STARBOARD DIESEL ENGINE

Sample No: VPA036380

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

SAMPLE INFORMAT	TION			
		\/D.1.02.62.00		
Sample Number		VPA036380	 	
Sample Date		20 Oct 2023	 	
Machine Hours		341	 	
Oil Hours		90	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.6	 	
Base Number (BN)	mg KOH/g	■8.4	 	
Oxidation (PA)	%	55	 	
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CONTAMINATION				
Soot %	%	■ 0.2	 	
Nitration (PA)	%	55	 	
Sulfation (PA)	%	50	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon		₹1.0		
	ppm	_		
Sodium	ppm	1	 	
Potassium	ppm	■ 3	 	
WEAR METALS				
Iron	ppm	2	 	
Copper	ppm	2	 	
Lead	ppm		 	
Tin	ppm	■ <1	 	
Aluminum	ppm	■ 2	 	
Chromium	ppm	0	 	
Molybdenum		61	 	
Nickel	ppm	_		
Nickei Titanium	ppm	0	 	
	ppm	0		
Silver	ppm		 	
Manganese	ppm		 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	1601	 	
Magnesium	ppm	■393	 	
Zinc	ppm	1155	 	
Phosphorus	ppm	■987	 	
Barium	ppm	■0	 	
Boron	ppm	64	 	
DOTOTI	Phili	_ 07		

CHICAGO YACHT WORKS

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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 acceptable for the time in service.

Depot:VP1080862Unique No:10714079Signed:Don BaldridgeReport Date:30 Oct 2023

OIL ANALYSIS REPORT



