



MARK THORNDYKE - MER MADE 2.0 VOLVO PENTA 2013989755 - PORT DIESEL ENGINE

Sample No: VPA059320

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

SAMPLE INFORMAT	TION			
Sample Number		VPA059320	 	
Sample Date		20 Oct 2023	 	
Machine Hours		342		
		~		
Oil Hours		90	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	■13.7	 	
Base Number (BN)	mg KOH/g	■8.0	 	
Oxidation (PA)	%	54	 	
CONTAMINATION				
	0/			
Soot %	%	■ 0.2	 	
Nitration (PA)	%	56	 	
Sulfation (PA)	%	50	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	■8	 	
Sodium	ppm	1	 	
Potassium	ppm	5	 	
WEAR METALS				
Iron	nnm	2	 	
	ppm	■2 ■1	 	
Copper	ppm	_	 	
Lead 	ppm	■<1	 	
Tin	ppm	□ <1	 	
Aluminum	ppm	■ 3	 	
Chromium	ppm	■ 0	 	
Molybdenum	ppm	62	 	
Nickel	ppm	■0	 	
Titanium	ppm	■ 0	 	
Silver	ppm	□ <1	 	
Manganese	ppm		 	
Vanadium	ppm	0	 	
ADDITIVES				
	10 10 100	= 1714		
Calcium	ppm	■ 1714	 	
_	ppm	■302	 	
Zinc	ppm ppm	1154	 	
Zinc Phosphorus	ppm ppm ppm	□1154 □997		
Magnesium Zinc Phosphorus Barium Boron	ppm ppm	1154	 	

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:10714080Signed:Don BaldridgeReport Date:30 Oct 2023

OIL ANALYSIS REPORT



