



NADINE URCIUOLI JAD FAKHRY VOLVO PENTA A 1 1 2 6 9 5 1 - STARBOARD DIESEL ENGINE

Sample No: VPA051585

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

SAMPLE INFORMAT	TION			
Sample Number		VPA051585	 	
Sample Date		30 Jan 2024	 	
Machine Hours		93	 	
Oil Hours		93		
Oil Changed		Changed		
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.7	 	
Base Number (BN)	mg KOH/g	■9.8	 	
Oxidation (PA)	%	53	 	
CONTAMINATION				
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Water	%	NEG	 	
Soot %	%	■ 0.1	 	
Nitration (PA)	%	38	 	
Sulfation (PA)	%	50	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	7	 	
Sodium	ppm	■ 0	 	
Potassium	ppm	2	 	
WEAR METALS				
Iron	ppm	8	 	
Copper	ppm	■3	 	
Lead	ppm	■2	 	
Tin	ppm	■ <1	 	
Aluminum	ppm	■ 3	 	
Chromium	ppm	_ <1	 	
Molybdenum	ppm	65	 	
Nickel	ppm	<u> </u>	 	
Titanium	ppm	 <1	 	
Silver	ppm	■ <1	 	
Manganese	ppm	■ <1	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	nnm	1012	 	
Magnesium	ppm	851	 	
Zinc		■ 1105	 	
Phosphorus	ppm	903	 	
Barium	ppm	= <1	 	
Boron		36	 	
DOTOIT	ppm	<u> </u>	 	

Helmuts Marine Service

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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:VP152741Unique No:10870757Signed:Don BaldridgeReport Date:09 Feb 2024

OIL ANALYSIS REPORT



