



WARD 520-178 VOLVO PENTA A 1 1 3 2 0 8 9 - PORT DIESEL ENGINE

Sample No: VPA057311

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMAT	TION			
Sample Number		VPA057311	 	
Sample Date		27 Nov 2023	 	
Machine Hours		227	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	■ 13.4	 	
Base Number (BN)	mg KOH/g	10.3	 	
Oxidation (PA)	%	54	 	
CONTAMINATION				
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Water	%	NEG	 	
Soot %	%	■0.4	 	
Nitration (PA)	%	45	 	
Sulfation (PA)	%	52	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	■ 6	 	
Sodium	ppm	■<1	 	
Potassium	ppm	0	 	
WEAR METALS				
Iron	ppm	11	 	
Copper	ppm	4	 	
Lead	ppm	1	 	
Tin	ppm	■ <1	 	
Aluminum	ppm	<u> </u>	 	
Chromium	ppm	<1	 	
Molybdenum	ppm	60	 	
Nickel	ppm	■<1	 	
Titanium	ppm	■<1	 	
Silver	ppm	■ 0	 	
Manganese	ppm	■<1	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	1076	 	
Magnesium	ррт	■ 1076 ■ 982	 	
Zinc	ppm	1251	 	
Phosphorus	ppm	■ 1231 ■ 1021	 	
Barium	ppm	■ 0	 	
Boron	ррт	6	 	
DOTOIT	PPIII			

Outstanding Marine

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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:VP153685Unique No:10816338Signed:Don BaldridgeReport Date:04 Jan 2024

OIL ANALYSIS REPORT



