



## BOWES 460-82 JUSTIN VOLVO PENTA A 1062859 - STARBOARD DIESEL ENGINE

Sample No: VPA059888

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

SAMPLE INFORMAT	TION			
Sample Number		VPA059888	 	
Sample Date		06 Nov 2023	 	
Machine Hours		289	 	
Oil Hours		60	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
		110111111111		
OIL CONDITION				
Visc @ 100°C	cSt	<b>13.4</b>	 	
Base Number (BN)	mg KOH/g	<b>10.2</b>	 	
Oxidation (PA)	%	55	 	
CONTAMINATION				
	0/	NEC		
Water	%	NEG	 	
Soot % Nitration (PA)	%	<b>■</b> 0.4 47	 	
Sulfation (PA)	%			
	%	52 NEG	 	
Glycol Fuel	%	<1.0	 	
Silicon		■ 5	 	
Sodium	ppm	<b>2</b>	 	
Potassium	ppm	<b>0</b>	 	
	PP			
WEAR METALS				
Iron	ppm	<b>12</b>	 	
Copper	ppm	<b>■</b> 5	 	
Lead	ppm	<b>■2</b>	 	
Tin	ppm	<b>■&lt;1</b>	 	
Aluminum	ppm	<b>■&lt;1</b>	 	
Chromium	ppm	<b>■&lt;1</b>	 	
Molybdenum	ppm	■58	 	
Nickel	ppm	<b>1</b>	 	
Titanium	ppm	<b>■</b> <1	 	
Silver	ppm	■0	 	
Manganese	ppm	<b>■&lt;1</b>	 	
Vanadium	ppm	<1	 	
ZAVITIDDA				
Calcium	ppm	<b>1117</b>	 	
Magnesium	ppm	■992	 	
Zinc	ppm	<b>1287</b>	 	
Phosphorus	ppm	<b>1076</b>	 	
Barium	ppm	<b>0</b>	 	
Boron	ppm	<b>■</b> 3	 	

## **Outstanding Marine**

PO Box 274 GALENA, MD US 21635 Contact: Ronda E

Contact: Ronda Bolinger rlwb@verizon.net

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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:VP153685Unique No:10764016Signed:Don BaldridgeReport Date:01 Dec 2023

## **OIL ANALYSIS REPORT**



