



## SEA CUPPS SEA CUPPS VOLVO PENTA 2013645869 - PORT DIESEL ENGINE

**Sample No:** VPA055105

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

SAMPLE INFORMAT	TION			
Sample Number		VPA055105	 	
Sample Date		12 Dec 2023	 	
Machine Hours		569	 	
Oil Hours		11	 	
Oil Changed		Not Changd	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	<b>14.3</b>	 	
Base Number (BN)	mg KOH/g	■9.3	 	
Oxidation (PA)	%	55	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	■0.1	 	
Nitration (PA)	%	45	 	
Sulfation (PA)	%	52	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	<b>6</b>	 	
Sodium	ppm	<b>2</b>	 	
Potassium	ppm	<b>4</b>	 	
WEAR METALS				
Iron	ppm	<b>■</b> 4	 	
Copper	ppm	_ <b>■</b> <1	 	
Lead	ppm	<b>■&lt;1</b>	 	
Tin	ppm	<b></b>	 	
Aluminum	ppm	<b>2</b>	 	
Chromium	ppm	<b>■&lt;1</b>	 	
Molybdenum	ppm	<b>14</b>	 	
Nickel	ppm	<b>■&lt;1</b>	 	
Titanium	ppm	<b>66</b>	 	
Silver	ppm	■0	 	
Manganese	ppm	<b>■</b> <1	 	
Vanadium	ppm	<1	 	
ADDITIDDA				
Calcium	ppm	<b>1447</b>	 	
Magnesium	ppm	<b>479</b>	 	
Zinc	ppm	<b>1089</b>	 	
Phosphorus	ppm	■958	 	
Barium	ppm	<b>12</b>	 	
Boron	ppm	123	 	

## **MARINE DIESEL SERVICES INC**

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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: VP288530 **Unique No:** 10790338 Signed: Don Baldridge Report Date: 18 Dec 2023

## **OIL ANALYSIS REPORT**



