



## TONY WHITLOCK 3965 VOLVO PENTA 2071189499 - STARBOARD DIESEL ENGINE

**Sample No:** VPA062979

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

SAMPLE INFORMAT	TION			
Sample Number		VPA062979	 	
Sample Date		21 Jun 2024	 	
Machine Hours		833	 	
Oil Hours		0	 	
Oil Changed		Not Changd	 	
Sample Status		NORMAL	 	
Sumple Status		TOTAL LE		
OIL CONDITION				
Visc @ 100°C	cSt	<b>14.0</b>	 	
Base Number (BN)	mg KOH/g	■8.6	 	
Oxidation (PA)	%	66	 	
CONTAMINATION				
	0/	NEC		
Water Soot %	%	NEG ■ 0.5	 	
Nitration (PA)	%	63	 	
Sulfation (PA)	%	55		
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon		<b>■</b> 6	 	
Sodium	ppm	<b>65</b>	 	
Potassium	ppm	<b>5</b>	 	
WEAR METALS				
Iron	ppm	<b>55</b>	 	
Copper	ppm	<b>23</b>	 	
Lead	ppm	<b>6</b>	 	
Tin	ppm	<b>■&lt;1</b>	 	
Aluminum	ppm	■28	 	
Chromium	ppm	<b>■</b> 3	 	
Molybdenum	ppm	■ 48	 	
Nickel	ppm	■3	 	
Titanium	ppm	<b>0</b>	 	
Silver	ppm	■0	 	
Manganese	ppm	<b>=</b> <1	 	
Vanadium	ppm	0	 	
ADDITIDDA				
Calcium	ppm	<b>1460</b>	 	
Magnesium	ppm	<b>491</b>	 	
Zinc	ppm	<b>1165</b>	 	
Phosphorus	ppm	■878	 	
Barium	ppm	■0	 	
Boron	ppm	<b>46</b>	 	

## **WESTERN BRANCH DIESEL**

6881 BULLDOG DR N CHARLESTON, SC US 29406 Contact: CHRIS BRADSHAW

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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: VP1165983 Unique No: 11098937 Signed: Jonathan Hester Report Date: 27 Jun 2024

## **OIL ANALYSIS REPORT**



