OIL ANALYSIS REPORT

VOLVO PENTA A 1086946 - STARBOARD DIESEL ENGINE **DON WARREN**

Sample No: VPA055501 **Oil Type:**

NOT GIVEN

SAMPI F INFORMATION

SAMPLE INFORMATION						
Sample Number		VPA055501				
Sample Date		02 Jul 2023				
Machine Hours		291				
Oil Hours		0				
Oil Changed		N/A				
Sample Status		NORMAL				
OIL CONDITION						
Visc @ 100°C	cSt	13.49				
Base Number (BN)	mg KOH/g	10.9				
Oxidation (PA)	%	67				
CONTAMINATION						
Soot %	%	0.1				
Nitration (PA)	%	40				
Sulfation (PA)	%	57				
Glycol	%	NEG				
Fuel	%	<1.0				
Silicon	ppm	7				
Sodium	ppm	2				
Potassium	ppm	1				
WEAR METALS						

Iron	ppm	1 0	 	
Copper	ppm	2	 	
Lead	ppm	0	 	
Tin	ppm	■<1	 	
Aluminum	ppm	6	 	
Chromium	ppm	 <1	 	
Molybdenum	ppm	4 9	 	
Nickel	ppm	■<1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	<1	 	
Vanadium	ppm	0	 	

ADDITIVES

Calcium	ppm	1519	 	
Magnesium	ppm	781	 	
Zinc	ppm	🔲 1194	 	
Phosphorus	ppm	954	 	
Barium	ppm	0	 	
Boron	ppm	53	 	

Harry's Marine Service LLC

1141 N. Citrus St. Orange, CA US 92887 Contact: TARAH AULD info@harrysmarine.com T: (714)771-7899 F:

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: VP867279 Unique No: 10540005 Signed: Jonathan Hester Report Date: 03 Jul 2023

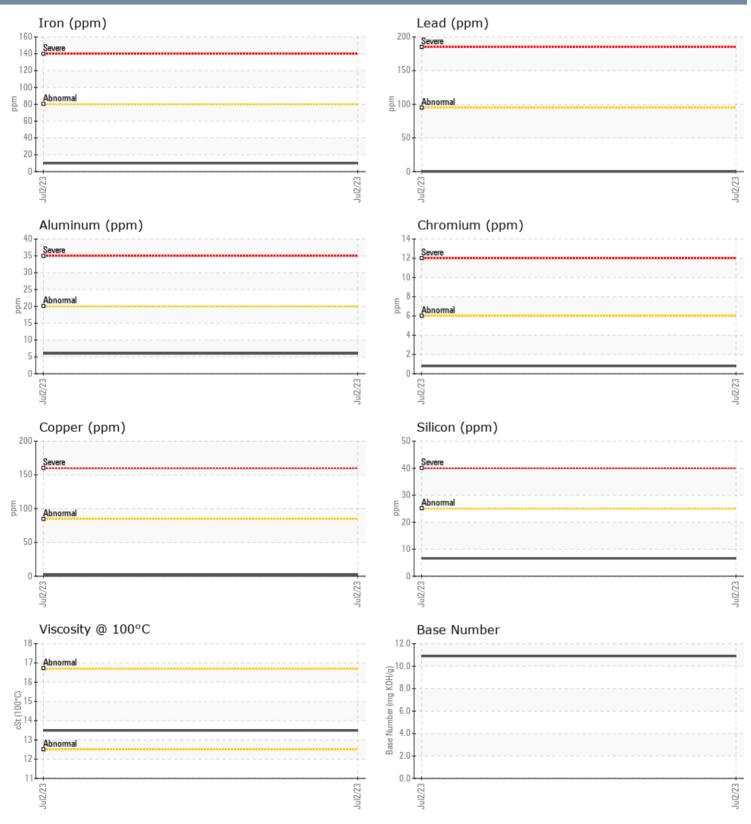
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Contact/Location: TARAH AULD - VP867279

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GRAPHS



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