# **OIL ANALYSIS REPORT**

## VOLVO PENTA 1012624648 - STARBOARD DIESEL ENGINE

Sample No:VPA046099Oil Type:NOT GIVEN

### SAMPLE INFORMATION

Sample Number		VPA046099	 	
Sample Date		05 Oct 2023	 	
Machine Hours		130	 	
Oil Hours		0	 	
Oil Changed		Not Changd	 	
Sample Status		ABNORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.2	 	
Base Number (BN)	mg KOH/g	<b>11.4</b>	 	
Oxidation (PA)	%	64	 	
CONTAMINATION				
Soot %	%	0.1	 	
Nitration (PA)	%	61	 	
Sulfation (PA)	%	51	 	
Glycol	%	<b>6</b> 0.06	 	
Fuel	%	<1.0	 	
Silicon	ppm	<b>4</b>	 	
Sodium	ppm	7	 	
Potassium	ppm	<mark>  80</mark>	 	

## WEAR METALS

Iron	ppm	∎1	 	
Copper	ppm	<b>46</b>	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	<b>1</b>	 	
Chromium	ppm	0	 	
Molybdenum	ppm	39	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	<1	 	
Vanadium	ppm	0	 	

### ADDITIV<u>es</u>

Calcium	ppm	1575	 	
Magnesium	ppm	475	 	
Zinc	ppm	1298	 	
Phosphorus	ppm	<b>1041</b>	 	
Barium	ppm	0	 	
Boron	ppm	35	 	

#### **Monmouth Marine Engines Inc**

536 UNION LN BRIELLE, NJ US 08730-1421 Contact: Laura Clarkin monmouthmarine@gmail.com T: F:

### Diagnosis

We advise that you check for the source of the coolant leak. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is positive. The condition of the oil is acceptable for the time in service.

 Depot:
 VP153457

 Unique No:
 10683264

 Signed:
 Doug Bogart

 Report Date:
 15 Oct 2023

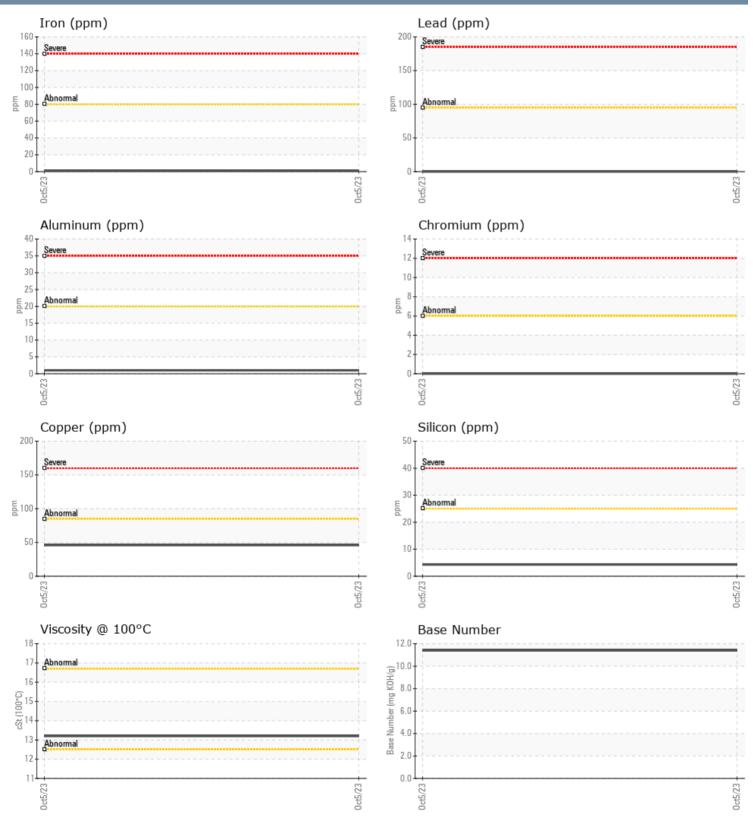
Contact/Location: Laura Clarkin - VP153457



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#### GRAPHS



Contact/Location: Laura Clarkin - VP153457