## **OIL ANALYSIS REPORT**

### ABSOLUTE NAVETTA 73 VOLVO PENTA 2013886442 - STARBOARD DIESEL ENGINE

Sample No: VPA054435

Oil Type: VOLVO PENTA SAE 15W40

#### SAMPLE INFORMATION

JAMPLE INFURMAI	IUN			
Sample Number		VPA054435	 	
Sample Date		12 Mar 2024	 	
Machine Hours		1120	 	
Oil Hours		0	 	
Oil Changed		Not Changd	 	
Sample Status		ABNORMAL	 	
OIL CONDITION				
Visc @ 100°C	-6+	= 12.2		
	cSt	<b>■</b> 13.3	 	
Base Number (BN)	mg KOH/g	8.2	 	
Oxidation (PA)	%	64	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	0.7	 	
Nitration (PA)	%	71	 	
Sulfation (PA)	%	59	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	6	 	
Sodium	ppm	∎1	 	
Potassium	ppm	<b>  </b> <1	 	
WEAR METALS				
Iron	ppm	<b>1</b> 8	 	
Copper	ppm	<b>177</b>	 	
Lead	ppm	0	 	
Tin	ppm	<b>  </b> <1	 	
Aluminum	ppm	2	 	
Chromium	ppm		 	
Molybdenum	ppm	62	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	<b>■</b> <1	 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	<b>1053</b>	 	
Magnesium	ppm	955	 	
Zinc	ppm	1213	 	
Phosphorus	ppm	<b>1042</b>	 	
Barium	ppm		 	
Boron	ppm	2	 	
DOIGH	PPIII	-		

VOLVO PENTA

Marine International Diesels Inc. 3600 HACIENDA BLVD UNIT G DAVIE, FL US 33314 Contact: ASHANTI BURKE aburke@midiflorida.com T: (954)761-1086 F: (954)761-1186

#### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other 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:
 VP694356

 Unique No:
 10928254

 Signed:
 Sean Felton

 Report Date:
 19 Mar 2024

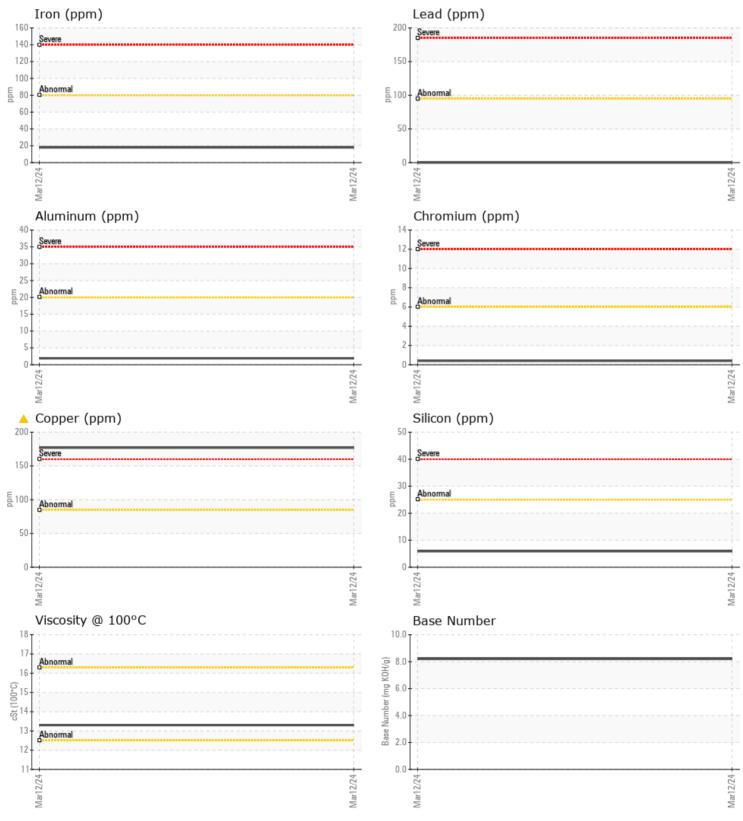
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Contact/Location: ASHANTI BURKE - VP694356

# **OIL ANALYSIS REPORT**



#### GRAPHS



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Contact/Location: ASHANTI BURKE - VP694356