## **OIL ANALYSIS REPORT**

#### VOLVO PENTA A 1 108037 - STARBOARD DIESEL ENGINE RICK MASTERS SAM

Sample No: VPA055610

**Oil Type: VOLVO PENTA SAE 15W40** 

### SAMPLE INFORMATION

Sample Number		VPA055610	 	
Sample Date		09 Aug 2023	 	
Machine Hours		87	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.3	 	
Base Number (BN)	mg KOH/g	9.3	 	
Oxidation (PA)	%	65	 	
	,,,			
CONTAMINATION				
Soot %	%	0.1	 	
Nitration (PA)	%	45	 	
Sulfation (PA)	%	61	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	20	 	
Sodium	ppm	0	 	
Potassium	ppm	<b>4</b>	 	
WEAR METALS				

Iron	ppm	<b>15</b>	 	
Copper	ppm	26	 	
Lead	ppm	5	 	
Tin	ppm	2	 	
Aluminum	ppm	5	 	
Chromium	ppm	<b>□</b> <1	 	
Molybdenum	ppm	<b>112</b>	 	
Nickel	ppm	2	 	
Titanium	ppm	<b>□</b> <1	 	
Silver	ppm	<b>□</b> <1	 	
Manganese	ppm	□<1	 	
Vanadium	ppm	0	 	

#### ADDITIVES

Calcium	ppm	1560	 	
Magnesium	ppm	649	 	
Zinc	ppm	927	 	
Phosphorus	ppm	774	 	
Barium	ppm	3	 	
Boron	ppm	322	 	

#### Endor Marine LLC - Coastal Marine - 152124 4300 11th Ave. NW SEATTLE, WA US 98107 Contact: WILLOW YANARELLA service@coastalmarineengine.com T: (206)784-3703 F: (206)784-8823

### 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 acceptable for the time in service.

Depot: VP794951 Unique No: 10603047 Signed: Don Baldridge Report Date: 15 Aug 2023

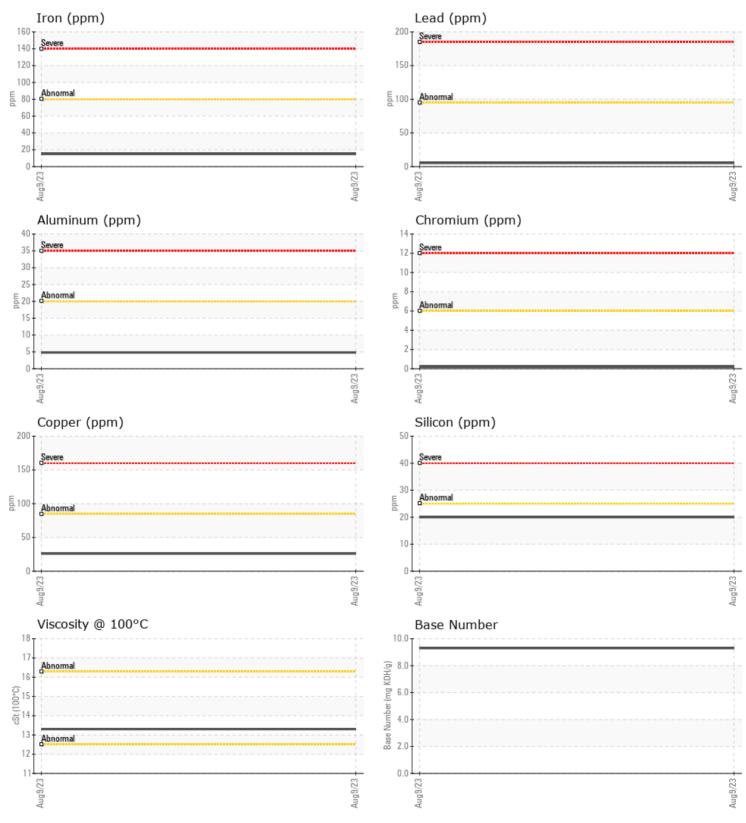
Contact/Location: WILLOW YANARELLA - VP794951



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#### GRAPHS



Report Id: VP794951 [WUSCAR] 05923100 (Generated: 08/16/2023 11:04:28) Rev: 1

Contact/Location: WILLOW YANARELLA - VP794951