## **OIL ANALYSIS REPORT**

### LACHMAN VOLVO PENTA 7011346790 - STARBOARD DIESEL ENGINE

Sample No:VPA050944Oil Type:NOT GIVEN

#### SAMPLE INFORMATION

Sample Number		VPA050944	 	
Sample Date		06 Sep 2023	 	
Machine Hours		582	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.8	 	
Base Number (BN)	mg KOH/g	8.5	 	
Oxidation (PA)	%	59	 	
CONTAMINATION				
Soot %	%	0.1	 	
Nitration (PA)	%	54	 	
Sulfation (PA)	%	53	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	3	 	
Sodium	ppm	2	 	
Potassium	ppm	3	 	

#### WEAR METALS

Iron	ppm	5	 	
Copper	ppm	8	 	
Lead	ppm	0	 	
Tin	ppm		 	
Aluminum	ppm	7	 	
Chromium	ppm	<b></b> <1	 	
Molybdenum	ppm	38	 	
Nickel	ppm	<b></b> <1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	<1	 	
Vanadium	ppm	0	 	

#### ADDITIVES

Calcium	ppm	2015	 	
Magnesium	ppm	231	 	
Zinc	ppm	<b>1295</b>	 	
Phosphorus	ppm	<b>1101</b>	 	
Barium	ppm	0	 	
Boron	ppm	<b>128</b>	 	

#### **Outstanding Marine**

PO Box 274 GALENA, MD US 21635 Contact: Ronda Bolinger rlwb@verizon.net T: F:

#### Diagnosis

No corrective action is recommended at this time. 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:
 VP153685

 Unique No:
 10644684

 Signed:
 Doug Bogart

 Report Date:
 14 Sep 2023

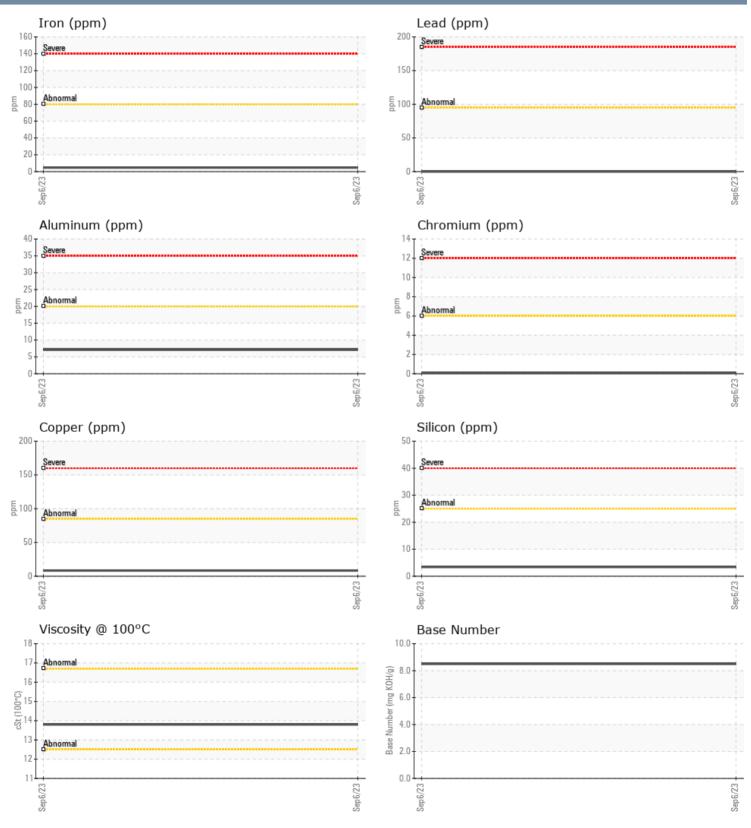
Contact/Location: Ronda Bolinger - VP153685



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#### GRAPHS



Report Id: VP153685 [WUSCAR] 05948725 (Generated: 09/14/2023 08:13:15) Rev: 1

Contact/Location: Ronda Bolinger - VP153685