## **OIL ANALYSIS REPORT**

### COSGROVE VOLVO PENTA A 1080853 - STARBOARD DIESEL ENGINE

Sample No: VPA021881 **Oil Type:** 

## NOT GIVEN

### SAMPLE INFORMATION

Sample Number		VPA021881	 	
Sample Date		06 Nov 2023	 	
Machine Hours		50	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	14.63	 	
Base Number (BN)		9.8	 	
. ,	%	56		
Oxidation (PA)	70	50	 	
CONTAMINATION				
Soot %	%	0.1	 	
Nitration (PA)	%	43	 	
Sulfation (PA)	%	51	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	5	 	
Sodium	ppm	0	 	
Potassium	ppm	2	 	

### WEAR METALS

Iron	ppm	<b>1</b> 0	 	
Copper	ppm	3	 	
Lead	ppm	<b>1</b>	 	
Tin	ppm	■<1	 	
Aluminum	ppm	2	 	
Chromium	ppm	<b>  </b> <1	 	
Molybdenum	ppm	59	 	
Nickel	ppm	■<1	 	
Titanium	ppm	<b></b> <1	 	
Silver	ppm	0	 	
Manganese	ppm	<1	 	
Vanadium	ppm	0	 	

#### ADDITIVES

Calcium	ppm	<b>1032</b>	 	
Magnesium	ppm	891	 	
Zinc	ppm	🔲 1105	 	
Phosphorus	ppm	<b>1007</b>	 	
Barium	ppm	5	 	
Boron	ppm	6	 	

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**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 condition of the oil is acceptable for the time in service.

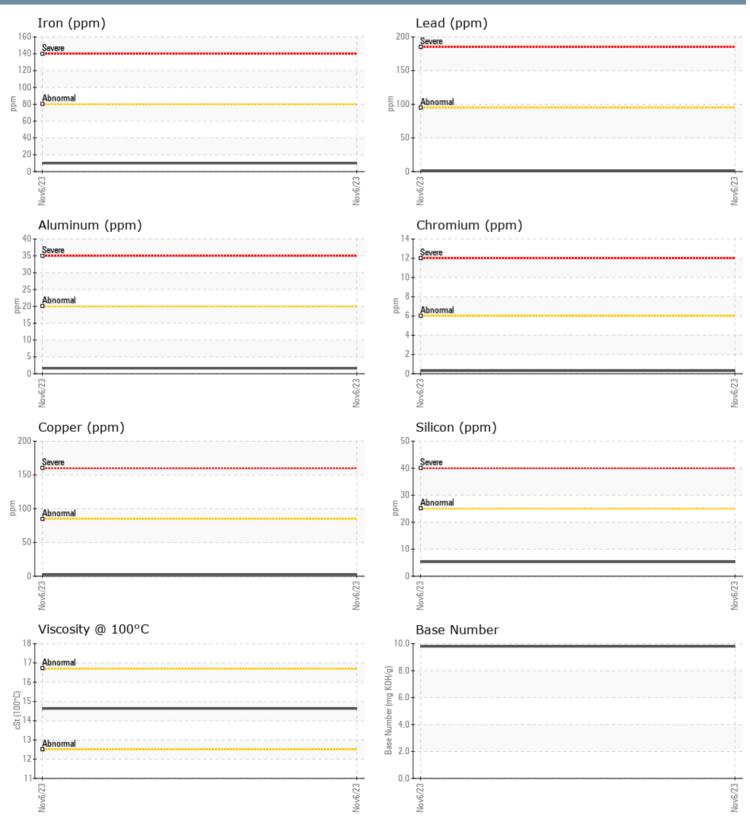
Depot: VP153685 Unique No: 10729237 Signed: Doug Bogart Report Date: 07 Nov 2023

Contact/Location: Ronda Bolinger - VP153685

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#### GRAPHS



Report Id: VP153685 [WUSCAR] 06000877 (Generated: 11/07/2023 16:49:38) Rev: 1

Contact/Location: Ronda Bolinger - VP153685