## **OIL ANALYSIS REPORT**

### HUTCHENSON 500-265 JC VOLVO PENTA A637791 - STARBOARD DIESEL ENGINE

Sample No: VPA059851

Oil Type: SHELL ROTELLA T 15W40

#### SAMPLE INFORMATION

SAMPLE INFURMA	IIUN			
Sample Number		VPA059851	 	
Sample Date		10 Nov 2023	 	
Machine Hours		308	 	
Oil Hours		40	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
	cSt	14.1		
Visc @ 100°C		_	 	
Base Number (BN)	mg KOH/g	<b>8.9</b>	 	
Oxidation (PA)	%	63	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	0.1	 	
Nitration (PA)	%	47	 	
Sulfation (PA)	%	55	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	4	 	
Sodium	ppm		 	
Potassium	ppm	8	 	
WEAR METALS				
Iron	ppm	8	 	
Copper	ppm	3	 	
Lead	ppm	■ <1	 	
Tin	ppm	<b>  </b> <1	 	
Aluminum	ppm	<b>  </b> <1	 	
Chromium	ppm	<b>  </b> <1	 	
Molybdenum	ppm	<b>10</b>	 	
Nickel	ppm	<b>  </b> <1	 	
Titanium	ppm	<b>  </b> <1	 	
Silver	ppm	0	 	
Manganese	ppm		 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	<b>1982</b>	 	
Magnesium	ppm	145	 	
Zinc	ppm	1115	 	
Phosphorus	ppm	953	 	
Barium	ppm	<b>□</b> <1	 	
Boron	ppm	182	 	
001011	PPIII	102		



Outstanding Marine PO Box 274 GALENA, MD JS 21635 Contact: Ronda Bolinger Iwb@verizon.net T:

#### 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:
 VP153685

 Unique No:
 10764041

 Signed:
 Don Baldridge

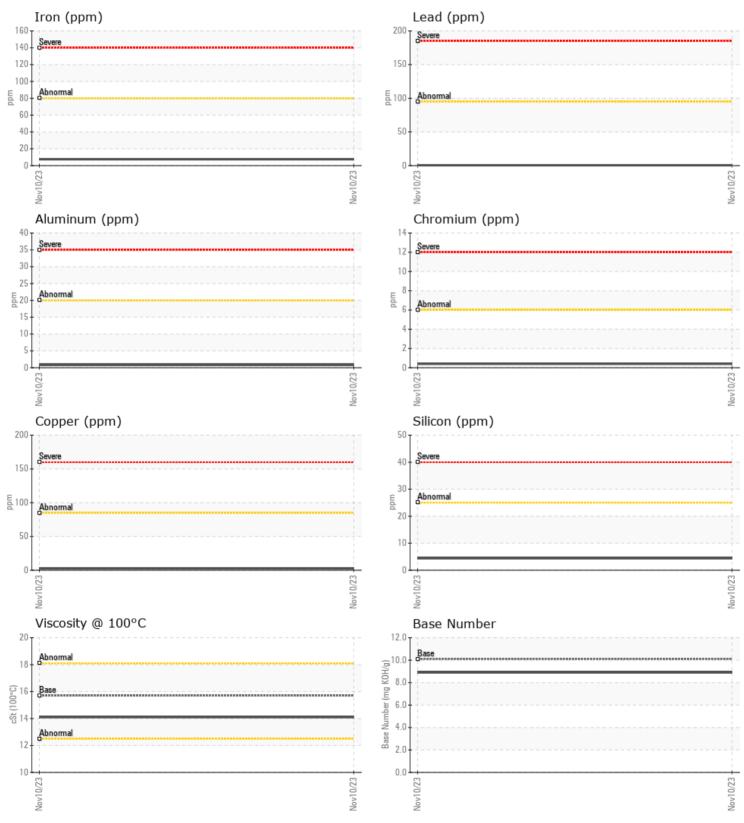
 Report Date:
 01 Dec 2023

Contact/Location: Ronda Bolinger - VP153685

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#### GRAPHS



Report Id: VP153685 [WUSCAR] 06019541 (Generated: 12/02/2023 05:43:00) Rev: 1

Contact/Location: Ronda Bolinger - VP153685