# **OIL ANALYSIS REPORT**

## PERRY 590-108 JAY CUMMINS 22528765 - STARBOARD DIESEL ENGINE

Sample No: VPA057313

Oil Type: DIESEL ENGINE OIL SAE 40

### SAMPLE INFORMATION

SAMPLE INFURMAT				
Sample Number		VPA057313	 	
Sample Date		22 Nov 2023	 	
Machine Hours		175	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.6	 	
Base Number (BN)	mg KOH/g	<b>10.2</b>	 	
Oxidation (PA)	%	53	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	∎1.1	 	
Nitration (PA)	%	59	 	
Sulfation (PA)	%	58	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	22	 	
Sodium	ppm	<b>4</b>	 	
Potassium	ppm		 	
	le le			
WEAR METALS				
Iron	ppm	<b>51</b>	 	
Copper	ppm	99	 	
Lead	ppm	4	 	
Tin	ppm	2	 	
Aluminum	ppm	21	 	
Chromium	ppm	3	 	
Molybdenum	ppm	53	 	
Nickel	ppm	5	 	
Titanium	ppm	<b>4</b>	 	
Silver	ppm	<b>□</b> <1	 	
Manganese	ppm	6	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	2805	 	
Magnesium	ppm	219	 	
Zinc	ppm	1108	 	
Phosphorus	ppm	954	 	
Barium	ppm	0	 	
Boron	ppm	271	 	
DOIOII	ppiii		 	



Outstanding Marine PO Box 274 GALENA, MD US 21635 Contact: Ronda Bolinger rlwb@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 suitable for further service.

 Depot:
 VP153685

 Unique No:
 10816330

 Signed:
 Don Baldridge

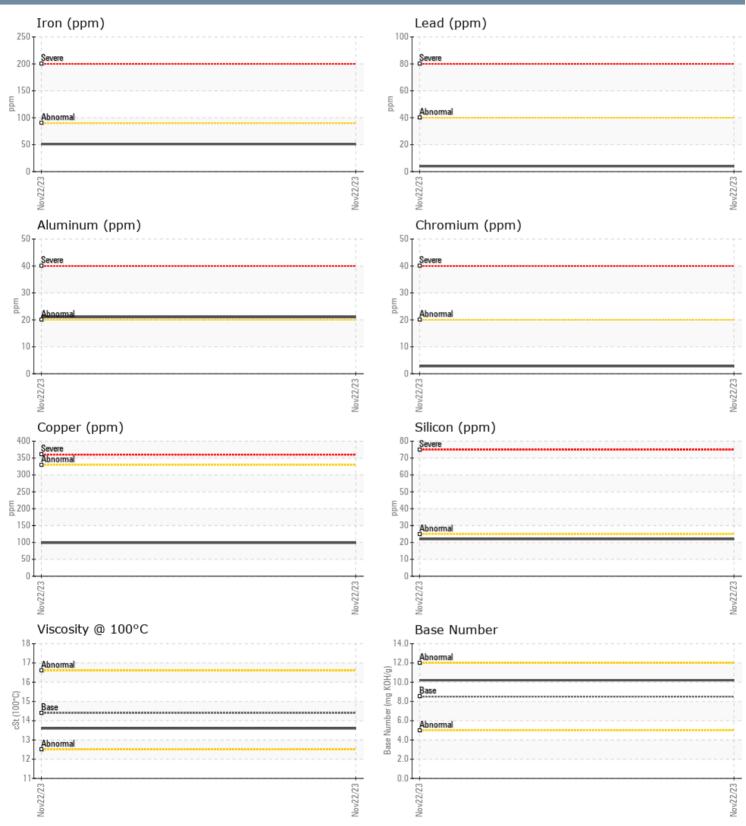
 Report Date:
 04 Jan 2024

Contact/Location: Ronda Bolinger - VP153685

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#### GRAPHS



Contact/Location: Ronda Bolinger - VP153685