OIL ANALYSIS REPORT

MOLDEN 560-102 JAY CUMMINS 22169403 - STARBOARD DIESEL ENGINE

Sample No: VPA059412

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

SAMPLE INFURMAT	IIUN			
Sample Number		VPA059412	 	
Sample Date		13 Nov 2023	 	
Machine Hours		0	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	15.0	 	
Base Number (BN)	mg KOH/g	8.3	 	
Oxidation (PA)	%	67	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	1.5	 	
Nitration (PA)	%	72	 	
Sulfation (PA)	%	63	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	∎5	 	
Sodium	ppm	□ <1	 	
Potassium	ppm	6	 	
	le le			
WEAR METALS				
Iron	ppm	20	 	
Copper	ppm	4 9	 	
Lead	ppm	□ <1	 	
Tin	ppm	□ <1	 	
Aluminum	ppm	2	 	
Chromium	ppm	 <1	 	
Molybdenum	ppm	6	 	
Nickel	ppm	2	 	
Titanium	ppm	 <1	 	
Silver	ppm	0	 	
Manganese	ppm	□<1	 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	2214	 	
Magnesium	ppm	26	 	
Zinc	ppm	1144	 	
Phosphorus	ppm	906	 	
Barium	ppm	□ <1	 	
Boron	ppm	122	 	
20.011	PPIII			

VOLVO Penta

Dutstanding Marine PO Box 274 GALENA, MD JS 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 acceptable for the time in service.

 Depot:
 VP153685

 Unique No:
 10764038

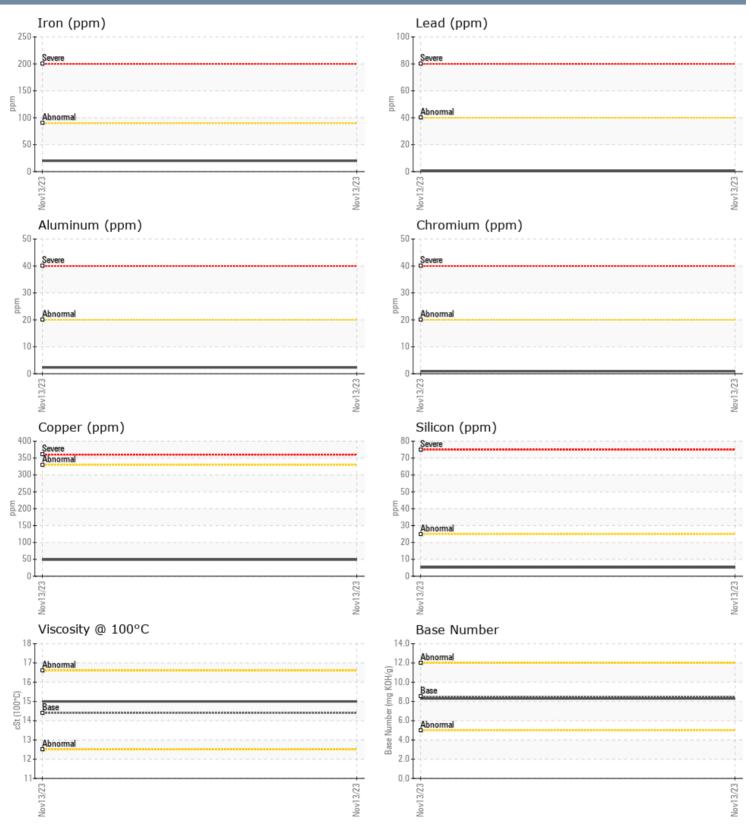
 Signed:
 Don Baldridge

 Report Date:
 01 Dec 2023

OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: Ronda Bolinger - VP153685