OIL ANALYSIS REPORT

JOHN S. CUMMINS CUMMINS 73709629 - STARBOARD DIESEL ENGINE

Sample No: VPA055323

Oil Type: VALVOLINE 15W40

SAMPLE INFORMATION

Sample Number		VPA055323	 	
Sample Date		27 Oct 2023	 	
Machine Hours		300	 	
Oil Hours		75	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.8	 	
Base Number (BN)	mg KOH/g	8.6	 	
Oxidation (PA)	%	73	 	
CONTAMINATION				
Soot %	%	0.1	 	
Nitration (PA)	%	68	 	
Sulfation (PA)	%	56	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	7	 	
Sodium	ppm	1 4	 	
Potassium	ppm	2	 	
		_		

WEAR METALS

Iron	ppm	1 7	 	
Copper	ppm	21	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	5	 	
Chromium	ppm	2	 	
Molybdenum	ppm	45	 	
Nickel	ppm	■ <1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	□ <1	 	
Vanadium	ppm	0	 	

ADDITIVES

Calcium	ppm	1310	 	
Magnesium	ppm	809	 	
Zinc	ppm	1057	 	
Phosphorus	ppm	849	 	
Barium	ppm	0	 	
Boron	ppm	46	 	

BEST MARINE

24 RIVERVIEW AVE TARRYTOWN, NY US 10591 Contact: Service Manager PETEMARINE27@OUTLOOK.COM T: (516)807-5340 E:

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:
 VPBESTAR

 Unique No:
 10727895

 Signed:
 Don Baldridge

 Report Date:
 08 Nov 2023

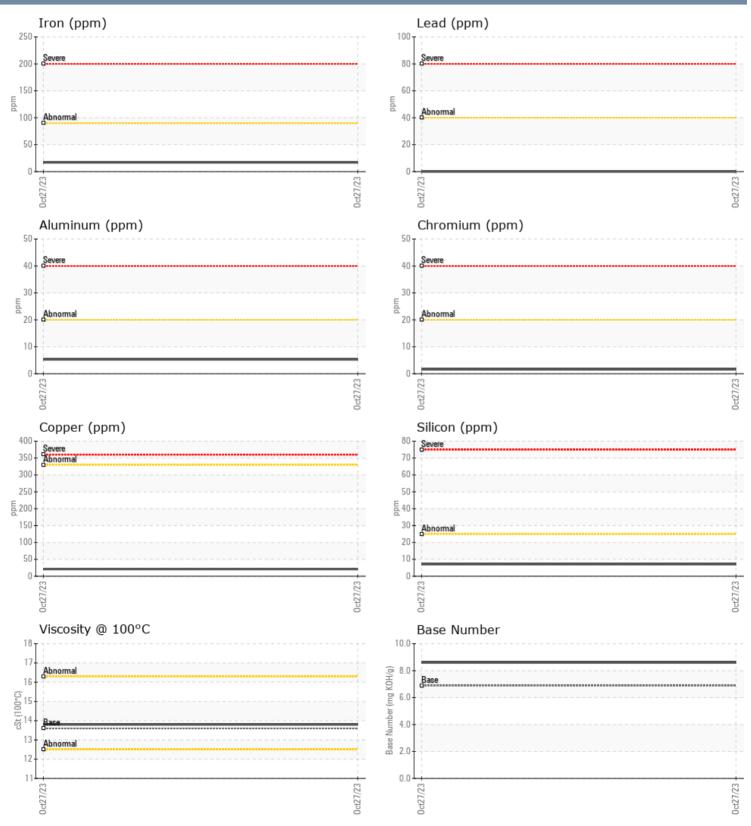
Contact/Location: Service Manager - VPBESTAR



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GRAPHS



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Contact/Location: Service Manager - VPBESTAR