OIL ANALYSIS REPORT

JOSHUA SMITH 533400 VOLVO PENTA A521692 - STARBOARD DIESEL ENGINE

Sample No: VPA036598

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION Sample Number VPA036598 Sample Date 06 Oct 2023 Machine Hours 315 **Oil Hours** 100 Oil Changed Not Changd MARGINAL Sample Status **OIL CONDITION** Visc @ 100°C cSt 14.27 Base Number (BN) mg KOH/g 9.4 Oxidation (PA) % 69 CONTAMINATION Soot % % 0.3 % Nitration (PA) 69 Sulfation (PA) % 57 % Glycol NEG Fuel % <1.0 Silicon ppm 8 Sodium 2 ppm Potassium 0 🔲 ppm WEAR METALS

Iron	ppm	23	 	
Copper	ppm	7	 	
Lead	ppm	7	 	
Tin	ppm	1	 	
Aluminum	ppm	<u> </u>	 	
Chromium	ppm	3	 	
Molybdenum	ppm	49	 	
Nickel	ppm	1	 	
Titanium	ppm	 <1	 	
Silver	ppm	0	 	
Manganese	ppm	 <1	 	
Vanadium	ppm	0	 	

ADDITIVES

Calcium	ppm	1212	 	
Magnesium	ppm	808	 	
Zinc	ppm	926	 	
Phosphorus	ppm	775	 	
Barium	ppm	0	 	
Boron	ppm	4 9	 	

Jas Marine Service Inc.

1009 Newman RD. LAKE PARK, FL US 33403 Contact: DEBBIE debbie@jasmarine.com T: (561)844-3224 F:

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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: VP152963 Unique No: 10686573 Signed: Doug Bogart **Report Date:** 10 Oct 2023

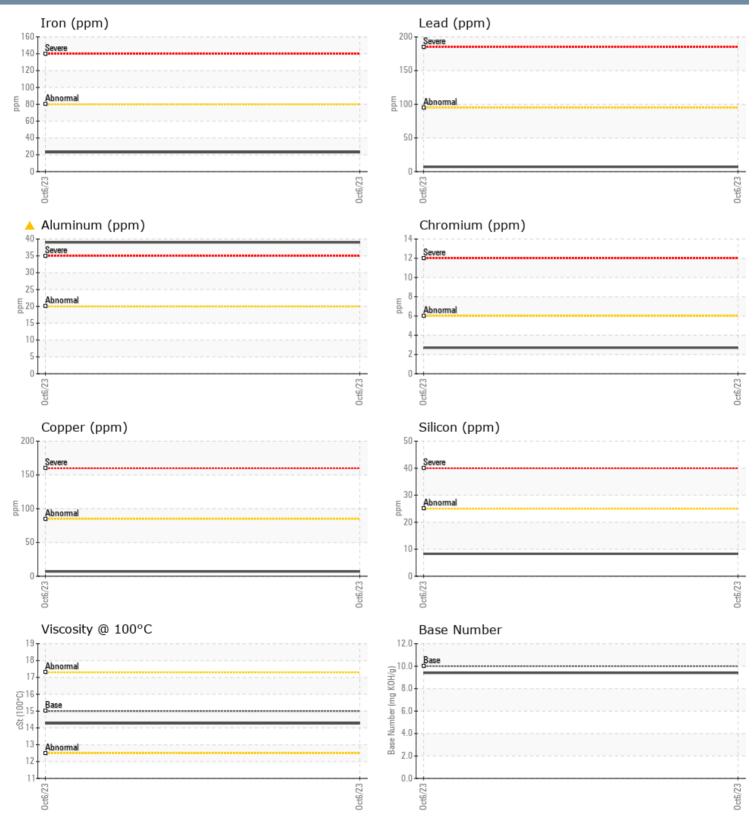
Contact/Location: DEBBIE ? - VP152963



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GRAPHS



Contact/Location: DEBBIE ? - VP152963