



BOB RYLANDER PATRICK/502643-5750 VOLVO PENTA 2006035464 - STARBOARD DIESEL ENGINE

Sample No: VPA059284

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMAT	TION			
Sample Number		VPA059284	 	
Sample Date		23 Jan 2024	 	
Machine Hours		1632	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ATTENTION	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.9		
Base Number (BN)		■ 13.9 ■ 8.2	 	
Oxidation (PA)	%	84	 	
Oxidation (PA)	70	04	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	■0.2	 	
Nitration (PA)	%	91	 	
Sulfation (PA)	%	63	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	6	 	
Sodium	ppm	■ 2	 	
Potassium	ppm	■8	 	
WEAR METALS				
Iron	ppm	2 6	 	
Copper	ppm	24	 	
Lead	ppm	■ 5	 	
Tin	ppm	1	 	
Aluminum	ppm	1 5	 	
Chromium	ppm	■<1	 	
Molybdenum	ppm	68	 	
Nickel	ppm	4	 	
Titanium	ppm	0	 	
Silver	ppm	■0	 	
Manganese	ppm	1	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	1359	 	
Magnesium	ppm	755	 	
Zinc	ppm	937	 	
Phosphorus	ppm	■ 816	 	
Barium	ppm	■0	 	
Boron	ppm	201	 	
	P P			

Endor Marine LLC - Coastal Marine - 152124 4300 11th Ave. NW SEATTLE, WA US 98107 Contact: WILLOW YANARELLA service@coastalmarineengine.com T: (206)784-3703

Diagnosis

F: (206)784-8823

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The nickel 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 acceptable for the time in service.

Depot:VP794951Unique No:10849225Signed:Don BaldridgeReport Date:30 Jan 2024

OIL ANALYSIS REPORT



