



JIM MILGARD EVAN/502887 VOLVO PENTA 2006038330 - STARBOARD DIESEL ENGINE

Sample No: VPA060457

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

SAMPLE INFORMAT	rion			
Sample Number		VPA060457	VPA015871	
Sample Date			26 Oct 2017	
Machine Hours		30 Apr 2024 578		
Oil Hours		578	364	
			0	
Oil Changed		Changed	Not Changd	
Sample Status		NORMAL	NORMAL	
OIL CONDITION				
Visc @ 100°C	cSt	13.6	14.17	
Base Number (BN)	mg KOH/g	■ 9.8		
Oxidation (PA)	%	67	6 4	
CONTAMINATION				
	0/	NEC	NEC	
Water	%	NEG	NEG	
Soot %	%	0.3	0	
Nitration (PA)	%	69	□ 67	
Sulfation (PA)	%	58	□50	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	<1.0	
Silicon	ppm	6	7	
Sodium	ppm	■3	6	
Potassium	ppm	1	0	
WEAR METALS				
Iron	ppm	12	1 7	
Copper	ppm	 2	8	
Lead	ppm			
Tin	ppm	■ <1	7	
Aluminum	ppm	2	<u>2</u>	
Chromium	ppm	 <1	1	
Molybdenum	ppm	81	4 1	
Nickel	ppm	■<1	1	
Titanium	ppm	■ <1	0	
Silver	ppm	0	0	
Manganese		■ <1	□ <1	
Vanadium	ppm	<1	0	
	ppm	\1	U	
ADDITIVES				
Calcium	ppm	1378	1250	
Magnesium	ppm	1292	7 39	
Zinc	ppm	1661	□1188	
Phosphorus	ppm	1433	944	
Barium	ppm	■0	□0	
Boron	ppm	1	29	

Endor Marine LLC - Coastal Marine - 152124 4300 11th Ave. NW SEATTLE, WA US 98107 Contact: WILLOW YANARELLA

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Diagnosis

F: (206)784-8823

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:
 VP794951

 Unique No:
 11015822

 Signed:
 Don Baldridge

 Report Date:
 08 May 2024

OIL ANALYSIS REPORT



