



PHILIP HASBROUCK VOLVO PENTA A865013 - PORT DIESEL ENGINE

Sample No: VPA056115

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

SAMPLE INFORMAT	LIUN			
Sample Number		VPA056115	VPA023746	
Sample Date		13 Oct 2023	16 Apr 2019	
Machine Hours		554	85	
Oil Hours		0	85	
Oil Changed		Not Changd	Not Changd	
Sample Status		NORMAL	NORMAL	
OIL CONDITION				
Visc @ 100°C	cSt	■13.4	□13.38	
Base Number (BN)	mg KOH/g	10.1		
Oxidation (PA)	%	55	37	
CONTAMINATION				
	0/		=0.4	
Soot %	%	■ 0.4	0.1	
Nitration (PA)	%	52	39	
Sulfation (PA)	%	53	40	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	<1.0	
Silicon	ppm	■8	1 4	
Sodium	ppm	2	■3	
Potassium	ppm	■ 0	■3	
WEAR METALS				
Iron	ppm	16	1 0	
Copper	ppm	9	10	
Lead	ppm	1	1 2	
Tin	ppm	1	<u> </u>	
Aluminum	ppm	2	1 4	
Chromium	ppm		<1	
Molybdenum	ppm	■ 58	4 3	
Nickel	ppm	2	= <1	
Titanium	ppm	0	0	
Silver	ррт	0	0	
		■ <1	2	
Manganese Vanadium	ppm	0	0	
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ADDITIVES				
Calcium	ppm	1036	1071	
Magnesium	ppm	■929	■921	
Zinc	ppm	1235	1202	
Phosphorus	ppm	■ 898	1 013	
Barium	ppm	■0	□ 0	
Boron	ppm	2	7	
	1-1			

MARINE DIESEL SERVICES INC

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Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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:VP288530Unique No:10696634Signed:Sean FeltonReport Date:17 Oct 2023

OIL ANALYSIS REPORT



