



BRAD BLACK 354531 VOLVO PENTA A627899 - STARBOARD DIESEL ENGINE

Sample No: VPA050782

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

SAMPLE INFORMAT	TION			
Sample Number		VPA050782	 	
Sample Date		20 Feb 2024	 	
Machine Hours		131	 	
Oil Hours		41		
Oil Changed		Changed NORMAL		
Sample Status		NORWAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.4	 	
Base Number (BN)	mg KOH/g	10.2	 	
Oxidation (PA)	%	56	 	
CONTAMINATION				
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Water	%	NEG	 	
Soot %	%	■ 0.2	 	
Nitration (PA)	%	47	 	
Sulfation (PA)	%	51	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	10	 	
Sodium	ppm	1	 	
Potassium	ppm	2	 	
WEAR METALS				
Iron	ppm	■ 20	 	
Copper	ppm	6	 	
Lead	ppm	■ <1	 	
Tin	ppm	■<1	 	
Aluminum	ppm	2	 	
Chromium	ppm	■ <1	 	
Molybdenum	ppm	■ 65	 	
Nickel	ppm	■ <1	 	
Titanium	ppm	■ <1	 	
Silver	ppm	■ 0	 	
Manganese	ppm	■ <1	 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	1045	 	
Magnesium	ppm	969	 	
Zinc	ppm	1240	 	
Phosphorus	ppm	1101	 	
Barium	ppm	0	 	
Boron	ppm	8	 	
201011	Lh			

Skipper Marine of Ohio, LLC

6801 E. Harbor Rd. MARBLEHEAD, OH US 43440 Contact: D LAKE dlake@skipperbuds.com T:

Diagnosis

F:

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:
 VP494046

 Unique No:
 10910352

 Signed:
 Sean Felton

 Report Date:
 05 Mar 2024

Contact/Location: D LAKE - VP494046

OIL ANALYSIS REPORT



