



BOB HITT GB5406 VOLVO PENTA 70112013422 - STARBOARD DIESEL ENGINE

Sample No: VPA036503

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMAT	TUN			
Sample Number		VPA036503	 	
Sample Date		11 Oct 2023	 	
Machine Hours		378	 	
Oil Hours		378	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	12.4	 	
Base Number (BN)	mg KOH/g	■8.2	 	
Oxidation (PA)	%	56	 	
CONTAMINATION				
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Soot %	%	■0.8	 	
Nitration (PA)	%	59	 	
Sulfation (PA)	%	55	 	
Glycol	%	NEG	 	
Fuel	%	0.9	 	
Silicon	ppm	■12	 	
Sodium	ppm	2	 	
Potassium	ppm	■ 0	 	
WEAR METALS				
Iron	ppm	21	 	
Copper	ppm	■ 58	 	
Lead	ppm	2	 	
Tin	ppm	1	 	
Aluminum	ppm	■ 3	 	
Chromium	ppm	■<1	 	
Molybdenum	ppm	■ 57	 	
Nickel	ppm	1	 	
Titanium	ppm	■<1	 	
Silver	ppm	■<1	 	
Manganese	ppm	■ <1	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	1056	 	
Magnesium	ppm	915	 	
Zinc	ppm	1117	 	
Phosphorus	ppm	957	 	
Barium	ppm	■0	 	
Boron	ppm	<u> </u>	 	
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GRAND BANKS

450 SW SALEM RD STUART, FL US 34994 Contact: ROBERT ANTONA roberta@gbmarinegroup.com T: (609)384-5290 F:

Diagnosis

Oil and filter change at the time of sampling has been noted. 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:VP531377Unique No:10696484Signed:Don BaldridgeReport Date:17 Oct 2023





