



DAVID BOVEE ANTHONY VOLVO PENTA 1012569561 - STARBOARD DIESEL ENGINE

Sample No: VPA059098

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMA	TION			
Sample Number		VPA059098	VPA044799	
Sample Date		05 Feb 2024	21 Dec 2022	
Machine Hours		1084	991	
Oil Hours		93	0	
Oil Changed		N/A	N/A	
Sample Status		ABNORMAL	NORMAL	
OIL CONDITION				
	_		40.5	
Visc @ 100°C	cSt	12.7	□12.8	
Base Number (BN)		■9.5	■10.9	
Oxidation (PA)	%	61	65	
CONTAMINATION				
Water	%	NEG	NEG	
Soot %	%	■0.1	□0.1	
Nitration (PA)	%	54	58	
Sulfation (PA)	%	53	58	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	<1.0	
Silicon	ppm	5	2	
Sodium	ppm	_ 0	0	
Potassium	ppm	■ <1	2	
WEAR METALS				
Iron	nnm	<u> </u>	3	
Copper	ppm	2	■ <1	
Lead	ppm	■ <1	= <1	
Tin	ppm	■<1 ■<1	<1	
Aluminum		■<1	0	
Chromium	ppm	■<1	0	
Molybdenum	ppm	■66	□ 59	
Nickel	ppm	■ <1	0	
Titanium	ppm	■ <1	= <1	
Silver	ppm	■0	0	
Manganese	ppm	■<1	0	
Vanadium	ppm ppm	0	0	
	ррш			
ADDITIVES			-445-	
Calcium	ppm	■1123	1158	
Magnesium	ppm	1062	9 01	
Zinc	ppm	1348	□1251	
Phosphorus	ppm	1064	■1055	
Barium	ppm	■0	0	
Boron	ppm	7	5	

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

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. Moderate concentration of visible dirt/debris present 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:10872634Signed:Don BaldridgeReport Date:12 Feb 2024

OIL ANALYSIS REPORT



