



ARKAN CAGLAYAN PATRICK/502632-5250 VOLVO PENTA 2013247921 - PORT DIESEL ENGINE

Sample No: VPA059215

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

CVMDI E INEUDMV.	TION			
SAMPLE INFORMAT	TIUN			
Sample Number		VPA059215	VPA056575	
Sample Date		28 Dec 2023	22 May 2023	
Machine Hours		1209	1184	
Oil Hours		25	0	
Oil Changed		Changed	Changed	
Sample Status		NORMAL	NORMAL	
OIL CONDITION				
Visc @ 100°C	cSt	13.2	□ 13.1	
Base Number (BN)	mg KOH/g	_ ■ 9.7	9.2	
Oxidation (PA)	%	55	69	
CONTAMINATION				
Water	%	NEG	NEG	
Soot %	%	■ 0.1	0.1	
Nitration (PA)	%	43	65	
Sulfation (PA)	%	51	57	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	<1.0	
Silicon	ppm	1 4	7	
Sodium	ppm	1	<u>4</u>	
Potassium	ppm	■3	1 3	
WEAR METALS				
Iron	ppm	<u> </u>	□ 6	
Copper	ppm	_ <1	2	
Lead	ppm	■0	1 0	
Tin	ppm	■ <1	- <1	
Aluminum	ppm	<u> </u>	<u> </u>	
Chromium	ppm	■0	- <1	
Molybdenum	ppm	■ 54	□50	
Nickel	ppm	■0	- <1	
Titanium	ppm	0	- <1	
Silver	ppm	■0	<1	
Manganese	ppm	■ <1	<u> </u>	
Vanadium	ppm	0	<1	
ADDITIVES				
Calcium	ppm	1008	□ 1226	
Magnesium	ppm	■886	875	
Zinc	ppm	■ 1129	□980	
Phosphorus	ppm	957	■789	
Barium	ppm	■0	□0	
Boron	ppm	10	■35	
	PP			

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

Contact: WILLOW YANARELLA service@coastalmarineengine.com

T: (206)784-3703 F: (206)784-8823

Diagnosis

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:VP794951Unique No:10817253Signed:Don BaldridgeReport Date:06 Jan 2024

OIL ANALYSIS REPORT



