



DAVID DEMARIA DIIW VOLVO PENTA 2006006860 - STARBOARD DIESEL ENGINE

Sample No: VPA059182

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMAT	TION			
Sample Number		VPA059182	VPA048207	
Sample Date		08 Feb 2024	08 Mar 2022	
Machine Hours		1536	1448	
Oil Hours		0	0	
Oil Changed		Changed	Changed	
Sample Status		NORMAL	NORMAL	
OIL CONDITION				
Visc @ 100°C	cSt	13.4	13.7	
Base Number (BN)	mg KOH/g	■9.7	1 0.2	
Oxidation (PA)	%	65	73	
CONTAMINATION				
Water	%	NEG	NEG	
Soot %	%	■ 0.1	0.2	
Nitration (PA)	%	62	74	
Sulfation (PA)	%	55	62	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	<1.0	
Silicon	ppm	4	5	
Sodium	ppm	11	4	
Potassium	ppm	0	2	
WEAR METALS				
Iron	ppm	7	1 2	
Copper	ppm	4	1 6	
Lead	ppm	■<1	2	
Tin	ppm	- <1	1	
Aluminum	ppm	<u> </u>	4	
Chromium	ppm	■0	<u> </u>	
Molybdenum	ppm	■58	□ 60	
Nickel	ppm	 0	0	
Titanium	ppm	0	0	
Silver	ppm	 _ 0	0	
Manganese	ppm	■ <1	<u></u> <1	
Vanadium	ppm	0	0	
ADDITIVES				
Calcium	ppm	1 033	□1393	
Magnesium	ppm	913	961	
Zinc	ppm	■1210	1477	
Phosphorus	ppm	1042	1232	
Barium	ppm	■0	□ 0	
Boron	ppm	2	19	
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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

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 suitable for further service.

Depot:VP794951Unique No:10925643Signed:Don BaldridgeReport Date:14 Mar 2024

OIL ANALYSIS REPORT



