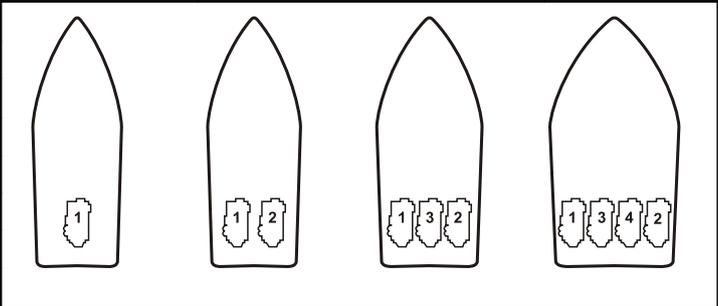


# Service Protocol



D13B-E MH, D13B-E MH (FE)

<b>Vessel</b>
<b>Customer</b>



Engine Hours	Serial number Engine	Serial number Transmission	Chassi ID
Driveline #1			
Driveline #2			
Driveline #3			
Driveline #4			

Warranty repairs  
 .....  
 .....

Campaign No.  
 .....  
 .....

**Conditions for 1000h serviceinterval**

- Approved Volvo Penta oil analysis
- Genuine Volvo Penta filters
- Oil quality= min VDS3
- Fuel quality= max 500 ppm sulphur

Total Labor Hours  
 .....

Name  
 .....

Signature  
 .....

Date  
 .....



Dealer Stamp

FSI = First Service Inspection  
 S1, S2, S3, S4 = Special Interval Service  
 A - F = Type of service (regular service)

C = Clean  
 R = Replace  
 A = Adjustment  
 L = Lubrication  
 I = Inspection (includes, if necessary, cleaning, adjustment, lubrication and change)

### FSI = First Service Inspection

<b>After the first 50-100 hours</b> <sup>(1)</sup>	
Transmission: According to manufacturers recommendations	I
<b>Start and warm up engine</b>	
Engine and transmission, abnormal noises	I
Engine and transmission, oil / fuel / water leakage	I

1) Or within 180 days of the date of delivery, or the end of the first season, whichever comes first.

### S1

<b>Every 500/ 1000 hours / at least every 12 month</b> <sup>(1)</sup>	
Engine Oil and Oil Filters / By-pass filter	R

1) 1000h service intervals require an approved oil analysis. Oil change intervals vary, depending on oil grade, sulfur content of the fuel and running conditions.

### S2

<b>Oil Analysis</b>	I
Schedule	<ul style="list-style-type: none"> <li>• After the first 600 hours</li> <li>• After the first 800 hours</li> <li>• Every 1000 hours / at least every 12 month</li> </ul>
See dealer's information	

### S3

<b>After the first 1200 hours</b>	
Valve clearance	I

### S4

<b>Transmission:</b> According to manufacturers recommendations	I
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**A**

Every 1000 hours /		At least every (month)		
		12	24	48
Inspection with VODIA (Diagnostic Tool) <sup>(1)</sup>	I	•		
Coolant level and antifreeze mixture	I	•		
Drive belts, belt tensioner and idler wheels	I	•		
Batteries, electrolyte level	I	•		
Air Filter	R	•		
Fuel pre-filter, filter insert	R	•		
Fuel fine filter	R	•		
Seawater filter	C	•		
Impeller in seawater pump <sup>(2)</sup>	R	•		
Anodes - Charge air cooler and / or Heat exchanger. (Must not be painted)	R	•		
Propellershaft seal. (Lubrication of shaft splines)	I	•		
Engine and transmission, inspect hoses and cable clamping	I	•		
Engine and transmission, cleaning / painting	I	•		
<b>Start and warm up engine</b>				
Engine and transmission, abnormal noises	I	•		
Engine and transmission, oil / fuel / water leakage	I	•		

1) Readout if any fault codes and LVD

2) Inspect wear kit

**B**

Every 2400 hours /		At least every (month)		
		12	24	48
Valve clearance	I			
Drive Belts	R			•
Turbocharger, inspect / clean as required	I		•	

**C**

Every 3000 hours /		At least every (month)		
		12	24	48
Wear kit in seawater pump	R			

**D**

Every 8000 hours /		At least every (month)		
		12	24	48
Coolant VCS (yellow) <sup>(1)</sup>	R			•

1) Different types of coolant must not be mixed with each other.

