

Corrosion Survey Report

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Vessel Details		Name MY "XXX"
Manufacturer Bayliner		Model 4387 Aft Cabin
LOA [Ft] 44	Year 1993	Hull Material Fiberglass

Report No 2017/0031
Date 28.09.2017

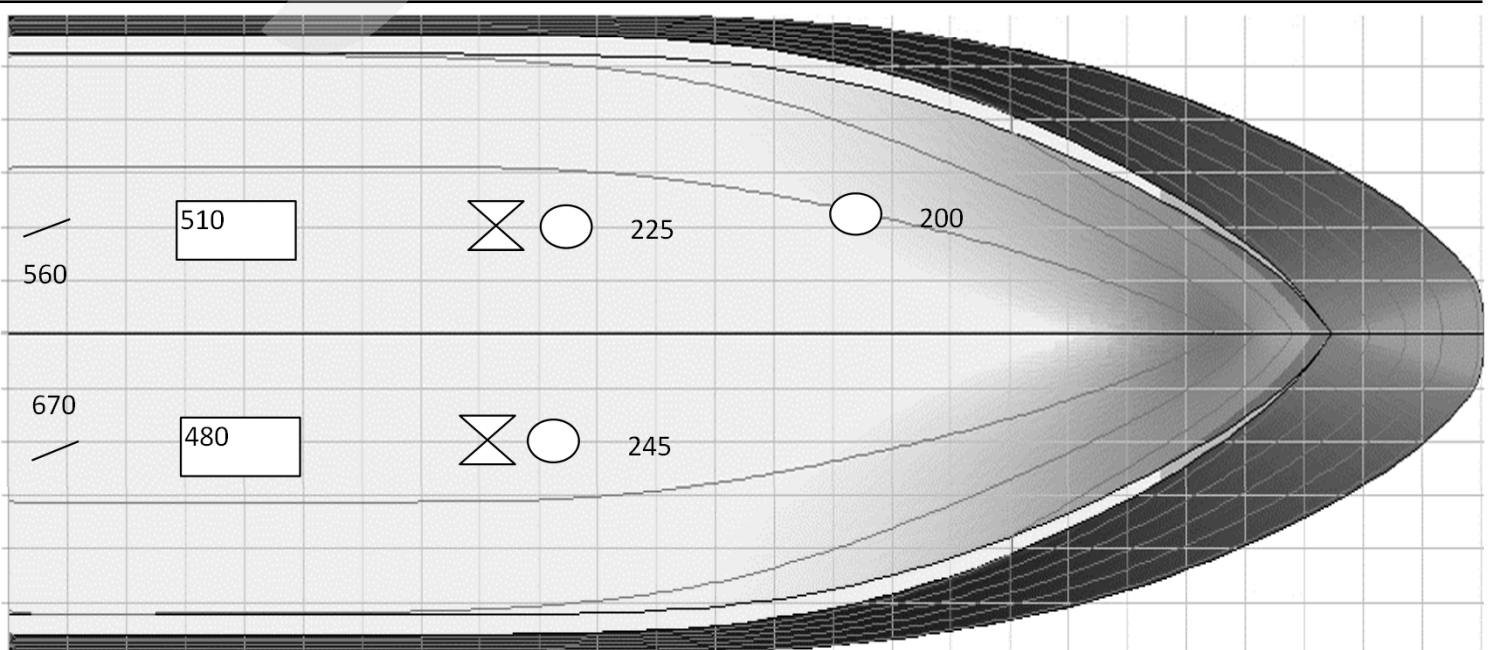
Owner Details		Name XXXXX
Address XXXXX		
Phone No XXXXX	e-mail XXXXX	

Berth Information	
Location/Marina Triest/Italy	
Berth No XXX	Water/Temp. Sea/16 C
AC Polarity Correct	Y
AC Stray Current	N
DC Stray Current	Y 

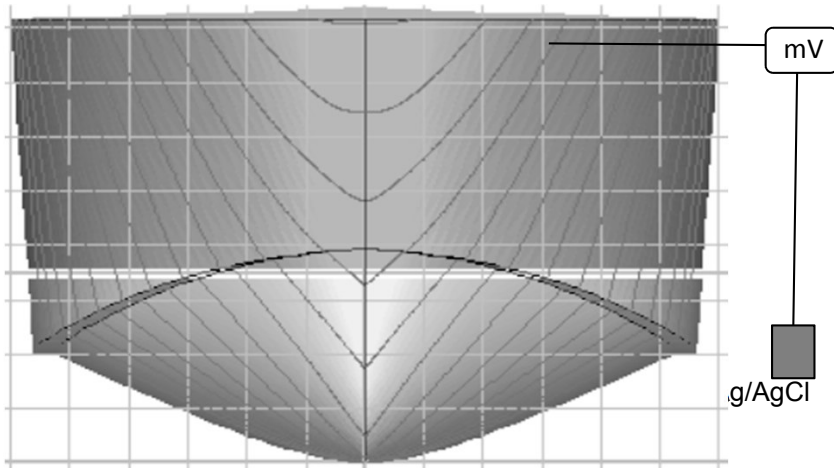
Reason for Survey Diver reports corrosion on engine inlet strainers
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Symbols					
Engine		Shaft		Through Hull	
Thruster		Rudder Stock		Stern Tube	
Seacock		Filter			

Accessories	
1	
2	
3	




Hull Potential and Bonding System



Hull Potential Readings 1)

Aft	450
Amidships	X
Bow	X

Grounding and Bonding System

Bonding installed	Yes
Galvanic Isolator	No
Isol. Transformer	No
Faults detected	Yes 

1) all readings referred to Silver/Silver Chloride reference electrode

Notes/Findings

Bonding not soldered or sealed and heavily corroded. Bonding wire broken between both engines and cooling intakes. Approx. 10 cm of water in Bilge. Aft bilge pump shows stray current readings of 1,023-1,030 Volts when in operation. Stbd. shaft packing leaking.

Recommendations

Rebonding of all UW through Hulls required!.
Solder and seal all bonding connections.
Re-wiring of AC ground to DC bonding required.
Renew aft bilge pump (isolation defect).
Renew both engine inlet strainers! High Safety Risk! 

Not mandatory: Corrosion Controller recommended

Galvanic Table (Excerpt)

Element	[mV]
Magnesium (Mg)	-1730
Zinc (Zn)	-1050
Marine Aluminium	-820
Mild Steel	-790
Stainless Steel	-550
Naval Brass	-450
Copper	-340
Silicon Bronze	-260

Note:

Readings 200 to 400 mV more neg. indicate that material is protected