6 INTERNATIONAL SIX METRE CLASS

Classic

Yacht's Name *Bobcat*

National letters and Sail Number *US54* **Club** *FIV*

Designer *Sparkman Stephens*

Builder *Henri B. Nevins Inc.* **Building Year** *1931*

Owner *Federico Nardi*

Owner's Address *Cantiere navale del Argentatrio*

Lloyds R class certificate (Number or Date) **American Bureau of Shipping**

RATING CERTIFICATE (Salt Water 1.025 kg/dm^3)

This yacht has been measured by measurer(s) approved by this Authority and has been found to rate not more than 6.000 metres *Immersion salt/fresh water = [m]* *0.000*

This certificate is dated **23-Jul-01** **0-Jan-00**

and its validity confirmed by **Guy-Roland Perrin , 6m ISAF Class Measurer**

for **ISAF** (enter name of National Authority)

Valid until **22-Jul-05**

Supersedes _____ (enter former certif. number or date)

Signature _____ **Stamp of Authority**

Comments :

OVERALL LENGTH				**11.134**
Overhang Forward to L1			1.292	
Overhang Aft to L1			2.051	
Total Overhang (Substract)			3.343	
MEASURED LENGTH (L1 L1)				**7.791**
Girth at Bow			0.850	
Twice vertical Heigth at Bow (Substract)			0.600	
O at Bow			0.250	
Add 1 1/2 O at Bow (min 0.360 m)			**0.375**	
Girth at Stern			1.999	
Twice vertical Heigth at Stern (Substract)			1.148	
O at Stern			0.851	
Add 1/3 O at Stern (min 0.267 m)			**0.284**	
Add any penalty (Displ. & Beam)			**0.000**	
CORRECT LENGTH L				**8.450**
Skin d to d1 Port			1.768	
Chain d to d1 Port			1.756	
d Port			0.012	
Skin d to d1 Starboard			1.768	
Chain d to d1 Starboard			1.756	
d Starboard			0.012	
Add d			0.024	
Add GIRTH 2 d				**0.048**
Mean Freeboard Bow O	Actual	0.817	0.817	
Mean Freeboard Midship d	Actual	0.686	0.686	
Mean Freeboard Stern O	Actual	0.664	0.664	
Sum of Freeboards			2.167	
Substract FREEBOARD, F				**0.722**
Add SAIL AREAS (Square root)				**6.436**
TOTAL OF MEASUREMENTS				**14.212**
PENALTY (Draught)			0.000	
RATING				**5.997**

Yacht's name : Bobcat	US54	6 m	23-Jul-01

PENALTIES

Overhang Forward to L	1.603	Overhang Aft to L	2.368	
Substract from overall length			3.971	
Difference of imersion from salt to fresch water [m]			0.000	
WATERLINE LENGTH				**7.163**
Minimum Displacement for Zero Penalty [m3]			3.964	
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)			4.063	
DISPLACEMENT	*(by weighing)*			**4.210**
Equivalent LWL (for Displ. < min.)		Difference		
DISPLACEMENT PENALTY (add to L)				**0.000**
DRAUGHT (actual)			1.600	
Max. Draught for Zero Penalty	1.646	Difference (if positive)		
DRAUGHT PENALTY (add to Rating)				**0.000**
BEAM (Min)			1.830	
Max Beam at 1/3 of Midship Freeboard	2.050	Difference (if positive)		
BEAM PENALTY (add to L)				**0.000**
Tumblehome Max. (2 x 2% of Extr. Beam)			0.082	
Extreme Beam	2.050	Beam at deck	2.020	
Difference (if positive)				
TUMBLEHOME PENALTY (add to Rating)				**0.000**

SAIL PLAN

Max Height of Sail Plan (Max 17.00m)	13.000	**J=**	2.902	**I =**	9.700
Boom Heigth =	0.850	**A=**	12.150	**B=**	4.850
Rated Foretriangle Area	11.963		Rated Mainsail Area		29.464
TOTAL RATED SAIL AREA	41.427		**6.436**		

SAIL LIMITS

Mainsail:	max girth at 1/2 height 67%	3.250	Max girth at 3/4 height 39%	1.892
Genua:	max. foot length (J + 3m)	5.902	**Spi boom =**	2.902
Spinnaker:	max. luff length	10.600	foot max breadth (250% J)	7.255

SPARS MEASUREMENTS

MAST CG position (from meas. point)	0.000	Mast Weight	0.00	Material	Wood
	Deck	Half-Height	Jib-Halyard	Head	
Mast dimensions [mm]	137x120	140x122	111x100	075x065	
Mast section area [cm^2]	136	147	96	42	
Mast section ratio (Max 1.35)	1.14	1.15	1.11	1.15	

DECK MEASUREMENTS

	Length	Aft width	Front width	Area	Dist.to sheerline
Cockpit dimensions	0.000	0.000	0.000	0.000	0.000
Hatch dimensions (max 0.4 m2)	#VALUE!	#VALUE!		#VALUE!	0.000

	Length	Width	Depth
Spi boom recess on deck	0.000	0.000	0.000

Date and place of Measurement	**23-Jul-01**	**0**
Measurer's Name(s)	**Guy-Roland Perrin , 6m ISAF Class Measurer**	
Measurer recognised by : (enter National Authority)	**ISAF**	
Measurer's signature		

Yacht's name : Bobcat US54 6 m 23-Jul-01

INTERNATIONAL SIX METRE CLASS

BUILDING FORM FOR CONSTRUCTION & SCANTLING (Rule 26)

The plan of the yacht reported in this measurement form has been approved by an ISAF measurer recognised by the following authority

Signature _____ Date _____

Visit(s) during construction have been done and apropriate samples taken

Signature _____ Date _____

Rule No	Measurement	Min weight [kg/m]	Actual weight	Max width	Actual width	Material used
26.4a	**Centreline structure**					
	Keel	9.07		450		
	Stem Head	4.04		200		
	Stem Heel	4.54		250		
	Stem Post	4.04		200		
	Counter structure	3.03		150		
b	**Arrangement of floors and ring frames** Transverse structural floors shall be fitted over the 3/4 LWL region at a frame spacing not exceeding 250 mm. These floors shall have minimum weight and dimensions as follow (weight of cockpit sole not included):					
		Min weight [kg/m]	**Actual weight**	**Min width**	**Actual width**	**Material used**
	At 55% station	1.5		700		
	At 3/4 LWL ends	1.0		500		
	Spacing	Max spacing	250 mm	Actual		
	Two ring frames each having a minimum weight of 8 kg		Actual			
c	**Gunwale angle (Equivalent of the beam shelf)**	Min weight [kg/m]	Actual [kg/m]	Depth below sheer & width on deck Max [mm]	Actual [mm]	Material used
	Gunwale angle within 3/4 LWL	1.8		200		
	Gunwale angle 0utside 3/4 LWL	1.3		150		
d	**Shell location basic weight [kg/m2]** In case of a framed or longitudinally stiffened single skin construction the minimum panel weight (excluding framing) shall be not less than 70% of the below mentionned values. Bottom shell is to extend not less than 150mm above LWL			Min weight [kg/m2]	Actual [kg/m2]	Material used
	Side within 3/4 LWL			11.32		
	Side outside 3/4 LWL			10.84		
	Bottom within 3/4 LWL			11.81		
	Bottom outside 3/4 LWL			11.24		
e	**Deck location basic weight [kg/m2]** In case of a framed or longitudinally stiffened single skin construction the minimum panel weight (excluding framing) shall be not less than 70% of the below mentionned values.The above weight are inclusive of any beam weights, but not of carlins and cockpit surrounds, which shall be in addition to the above			Min weight [kg/m2]	Actual [kg/m2]	Material used
	Within 3/4 LWL			9.01		
	Outside 3/4 LWL			8.15		
	Transom/Retrousse stern			8.15		
f	**Rudder and stock**	**Min weight**	**12.5 kg**	Actual [kg]		

26.5 The material permitted for the construction of hull are as follow:
(a) Fibre glass fiber of type E,R, and S are permitted, higher specific modulus are prohibited
(b) Resins : Polyester, vynilester and epoxy type resins are permitted as are all bounding compouds
(c) Timber : wood of any species is permited
(e) Core material: Timber and thermoplastic cores are permitted (min density 70 kg/m3). Aramid and aluminium honeycomb are prohibited.