

12 INTERNATIONAL TWELVE METRE CLASS

Yacht's Name	Valiant			
National letters and Sail Number	US 24	Club	New York Yacht Club	
Designer	Sparkman & Si	tephens		
Builder	Derector		Building Year 1970	
Owner	Gary Gregory			
Owner's Address	19 Mill Pond		Marblehead MA, 01945 USA	
Lloyds R class certificate (Number or Date)			
APPENDIX	E BATING	CERTI	EICATE	
This yacht has been measured by measured		_	_	
	and to rate not mor	-		
This certificate is dated	21-July-2013			
			Ander L	
Measurer	A Williams		Signature	
Valid until	21-July-2015		1 TM . A	
Supersedes	19-June-2001		. W 2	
o aporto coso	10 04110 200.		World	
L'hell pri	?		INTERNATIONAL TWELVE METRE ASSOCIATION	
Signature			Stamp of Authority of the	
ITMA Technical Director		Interr	national Twelve Metre Association	
PROVISIONAL	. CERTIFIC	ATE V	ALIDATION	
This yacht has been declared by the Owner to be	•	•	•	
Accordingly this certificate has been revalidated and reby a	emains valid until Apr class measurer prior		ubject to a successful flotation being carried out	
Signature Marc	ch 21, 2018			
ITMA Technical Directo				

Yacht's name: Valiant US 24 21-Jul-13

RATING CALCULATION

OVERALLIENCELL					10 500
OVERALL LENGTH				0.100	19.522
Overhang Forward to L1				2.192	
Overhang Aft to L1				1.100	
Total Overhang (Subtract)				3.292	16 020
MEASURED LENGTH (L1 L1) Girth at Bow				1 570	16.230
	`			1.570	
Twice vertical Height at Bow (Subtract) O at Bow)			1.200	
				0.370	
Add 1 1/2 O at Bow (min 0.540 m)				0.555	
Girth at Stern	.+\			2.994	
Twice vertical Height at Stern (Subtrac O at Stern	;i)			1.818	
Add 1/3 O at Stern (min 0.400 m)				1.176	
Add any penalty (Beam)				0.400 0.000	
Sum of Length and Girth Corrections				0.000	17.185
Age Date and Allowance	1977	Allowance	0.9860		17.105
CORRECT LENGTH L	1977	Allowance	0.9660		16.944
Skin IM to d1 Port				3.240	10.944
Chain IM to d1 Port				3.240	
d Port				0.000	
Skin IM to d1 Starboard				3.249	
Chain IM to d1 Starboard				3.249	
d Starboard				0.000	
Add d				0.000	
Add GIRTH 2 d				0.000	0.000
Mean Freeboard Bow O		Actual	1.420	1.420	0.000
Mean Freeboard Midship d		Actual	1.142	1.142	
Mean Freeboard Stern O		Actual	1.090	1.090	
Sum of Freeboards		, lotaa.	11000	3.652	
Subtract FREEBOARD, F				See Notes	1.210
Add SAIL AREAS (Square root)					12.705
TOTAL OF MEASUREMENTS					28.439
PENALTY (Draught)				0.000	
RATING					12.000
Date and place of Measurement	21-Jul-13			1.	
Measurer's Name(s)	A Williams		Signature	Ander	L-
Provisional Certificate Revalidated	April 15, 2018		Certificate		April 14, 2020

Yacht's na	me : Valiant		US 24	21-Jul-13
	PENALTIES			
Overhang Forward to L		[2.856	
Overhang Aft to L			1.634	
Subtract from overall length			4.490	
Difference of imersion from salt to	o fresh water	L	0.000	
WATERLINE LENGTH				15.032
Minimum Displacement for Zero	Penalty [m3]		31.447	
Minimum Weight for Zero Penalty	y [tonnes] (Water of sg 1.0)25)	32.233	
ACTUAL WEIGHT [tonnes]				32.436
Equivalent LWL (for Displ. < min.)		15.065	
Difference			-0.033	
DISPLACEMENT PENALTY (add	d to L)	_		0.000
DRAUGHT (actual)		ſ	2.905	
Max. Draught for Zero Penalty			2.905	
Difference (if positive)				
DRAUGHT PENALTY (add to Ra	ating)			0.000
BEAM (Min)		[3.780	
Max Beam at 1/3 of Midship Free	eboard		3.600	
Difference (if positive)			0.180	
BEAM PENALTY (add to L)		-		0.000
Tumblehome Max. (2 x 2% of Ex	tr. Beam)		0.000	
Extreme Beam				
Beam at deck				
Difference (if positive)		Ţ	0.000	
TUMBLEHOME PENALTY (add	to Rating)			0.000
Date and place of Measurement	21-Jul-13		Ander	1
Measurer's Name(s)	A Williams	Signature		
Provisional Certificate Revalidated	April 15, 2018	Certificate	valid until	April 14, 2020

Yacht's name	: Valiant		US 24	21-Jul-13	
SAIL PLAN					
Max Height of Sail Plan =	25.000	J= 7.254] I=[18.750	
Boom Height =	1.545	A= 23.455	B= [8.660	
Rated Mainsail Area	101.560	Spi boom= 7.820	/_ [12.705	
Rated Foretriangle Area TOTAL RATED SAIL AREA	62.316 163.876	Propeller allo Corrected sa	ľ	0.985 161.418	
SAIL LIMITS Mainsail max girth:	1/2 height (68%)	5.889 3/	4 height (41%)	3.551	
Genoa: max. foot le	ength (J + 4.8m)	12.054			
Spinnaker: 1/2 foot max b	oreadth (125% J)	9.775 ma	ax. luff length=	18.752	
Spar Measurement					
MAST (material)	Aluminium Deck	Mast Weight 472 Half-Height Jib-Halyare	CG pos.	9.998	
Mast dimensions [mm]	0.000	0.000 0.000	0.000		
Sections area [cm ²]	0	0 0	0		
Engin	e/Propeller	Installation			
Engine and propeller weight Minimum boat speed with engine Engine model and power	Yes Yes	Propeller diameter = Propeller position =			
	Flotatio	on			
Internal Ballast 1 Lead Blocks 100.5 kg 2 Anchor Fx 55 3 Anchor Rode 4 Tanks empty	13m 1m	From Bow At mast Aft of Mast			
	Measurer's	Notes			
 Freeboard in Rating as per 1933-19 Boat weight 32436 kgs Note Overlength Spinnaker Pole 	70 Rule (Sum/3,f	Max 1.21)			
Date and place of Measurement	21-Jul-13		Ander	h_	
Measurer's Name(s) Provisional Certificate Revalidated	A Williams April 15, 2018	Signatuı Certificat	e	pril 14, 2020	