

12

INTERNATIONAL TWELVE METRE CLASS

Yacht's Name Weatherly

National letters and Sail Number USA 17 Club IYAC

Designer Rhodes

Builder Luders Building Year 1958

Owner Steve Eddleston

Owner's Address 131 Hope Street, Bristol, RI 02809 USA

Lloyds R class certificate (Number or Date) _____

RATING CERTIFICATE

This yacht has been measured by measurer(s) appointed by the International Twelve Metre Association and has been found to rate not more than 12.000 metres.

This certificate is dated: June 3, 2022

Measurer A Williams Signature *A Williams*

Valid until June 3, 2024

Supersedes May 31, 2020

Is this an **Appendix E** Certificate? Y / N Y

Was **Appendix F** used for Measurement? Y / N N

Signature *K. Hill*
ITMA Technical Director



Stamp of Authority of the
International Twelve Metre Association

RATING CALCULATION

OVERALL LENGTH		21.008
Overhang Forward to FGS	2.674	
Overhang Aft to AGS	2.653	
Total Overhang (Subtract)	5.327	
MEASURED LENGTH (L_{BG})		15.681
Girth at Bow	1.543	
Twice vertical Height at Bow (Subtract)	1.200	
Girth Difference at FGS	0.343	
Add 1.5 x Girth Difference at FGS (min 0.540 m)	0.540	
Girth at Stern	3.126	
Twice vertical Height at Stern (Subtract)	1.686	
Girth Difference at AGS	1.440	
Add 1/3 Girth Difference at AGS (min 0.400 m)	0.480	
Add any penalty (Beam or Displacement)	0.000	
Sum of Length and Girth Corrections		16.701
Age/Design Correction Factor (ADCF)(see page 3)	0.9659	
LENGTH (L)		16.131
Skin IM to d1 Port	2.117	
Chain IM to d1 Port	2.088	
d Port	0.029	
Skin IM to d1 Starboard	2.135	
Chain IM to d1 Starboard	2.100	
d Starboard	0.035	
Add d	0.064	
Add GIRTH 2 d		0.128
	Datum Sta.	Actual Sta.
Mean Freeboard Bow		1.382
Mean Freeboard Midship		1.069
Mean Freeboard Stern		1.023
Sum of Freeboards		3.474
Subtract FREEBOARD, F		1.158
Add SAIL AREAS (Square root)		13.338
TOTAL OF MEASUREMENTS		28.440
PENALTY (Draft or Tumblehome)		0
RATING		12.000

Date and Place of Measurement

3-Jun-22

Measurer's Name(s)

A Williams

Signature



Yacht's name : Weatherly		Date	3-Jun-22
Range Measurement (Yes or No)	no	Date:	

PENALTIES

Overhang Forward to MWL	3.186	
Overhang Aft to MWL	3.423	
Subtract from overall length	6.609	
Difference of immersion from salt to fresh water	Meas. Density	0.000
WATERLINE LENGTH (LWL)		14.399
Minimum Displacement for Zero Penalty [m3]	27.813	
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)	28.508	
WEIGHT [tonne] Actual weight		28.636
Equivalent LWL (for Displ. < min.)	14.422	
Difference		
DISPLACEMENT PENALTY (add to L)		0.000
Displacement Determination Method	Hull Scan	
DRAFT (actual)	2.797	
Max. Draft for Zero Penalty	2.804	
Difference (if positive)		
DRAFT PENALTY (add to Rating)		0.000
BEAM (Min)	3.600	
Max Beam at 1/3 of Midship Freeboard	0.000	
Difference (if positive)	0.000	
BEAM PENALTY (add to L)		0.000
Tumblehome Max. (2 x 2% of Extr. Beam)	0.144	
Extreme Beam	3.600	
Beam at deck	3.506	
Difference (if positive)	-0.050	
TUMBLEHOME PENALTY (add to Rating)		0.000

Date and Place of Measurement	3-Jun-22	
Measurer's Name(s)	A Williams	Signature <i>Ander</i>

Design/Age Correction Factor Calculation			
Age Date	1958		
ADCF (Table E-2)	0.9647		
Hull Alteration Scope and Date			
Appendage Change Scope and Date	New Keel 1962	0.9671	0.0012
Change/Alteration Correction ADCF	0.9659		
Accommodation Deficiency Ballast			

Yacht's name : Weatherly

Date

3-Jun-22

SAIL PLAN

Max Height of Sail Plan =	<input type="text" value="25.000"/>	J=	<input type="text" value="7.010"/>	I =	<input type="text" value="18.748"/>
Boom above Mast Datum =	<input type="text" value="1.540"/>	P=	<input type="text" value="23.460"/>	E=	<input type="text" value="10.360"/>
Rated Mainsail Area	<input type="text" value="121.523"/>	Spi boom=	<input type="text" value="7.650"/>	√S=	<input type="text" value="13.338"/>
J used for Rating			<input type="text" value="7.650"/>		
Rated Foretriangle Area	<input type="text" value="60.954"/>	Propeller allowance		<input type="text" value="0.975"/>	
TOTAL RATED SAIL AREA (S)	<input type="text" value="182.477"/>	Corrected sail area		<input type="text" value="177.915"/>	

SAIL LIMITS

Mainsail max girth:	1/2 height (68% of E)	<input type="text" value="7.045"/>	3/4 height (41% of E)	<input type="text" value="4.248"/>
Genoa:	max. foot length (J + 4.8m)	<input type="text" value="11.810"/>		
Spinnaker:	1/2 foot max breadth (125% J)	<input type="text" value="9.563"/>	max. luff length=	<input type="text" value="18.699"/>

Spar Measurement

MAST (material)	<input type="text" value="Aluminium"/>	Mast Weight	<input type="text" value="555"/>	CG pos.	<input type="text" value="10.400"/>
	Deck	Half-Height	Jib-Halyard	Head	
Mast dimensions [mm]	<input type="text" value="307 x 246"/>	<input type="text" value="337 x 246"/>	<input type="text" value="337x 246"/>	<input type="text" value="194 x 155"/>	
Sections area [cm ²]	<input type="text" value="583"/>	<input type="text" value="583"/>	<input type="text" value="583"/>	<input type="text" value="180"/>	
Mast CG Correction (if applicable) Wt & CG	<input type="text" value="@"/>		Mk ²	<input type="text" value=""/>	

Engine/Propeller Installation

Engine and propeller weight	<input type="text" value="yes"/>	Propeller diameter =	<input type="text" value="0.620"/>
Minimum boat speed with engine	<input type="text" value="yes"/>	Propeller position =	<input type="text" value="Skewed"/>
Propeller Type (folding feathering fixed pitch etc.), no of blades		<input type="text" value="3"/>	
Propeller Skew			<input type="text" value="0.975"/>

Flotation

Internal Ballast	Amount	Location aft of bow
5 pigs	117kg	6.45m
10 pigs	196kg	7.1m
7 pigs	172 kg	7.6m
8 blocks bolted to mast step	176kg	8m
8 blocks bolted to mast step	210kg	8.6m

Measurer's Notes

1	2011 Engine moved aft	
2	Damage to ends repaired	
3	Battery	3 x 29kg 11.3m
4	Anchor, Chain	62 KG 9.3m
1958 mast with external sail track - track height of 30mm, no taper at hounds		

Date and Place of Measurement

3-Jun-22

Measurer's Name(s)

A Williams

Signature

