

12



INTERNATIONAL TWELVE METRE CLASS

Yacht's Name NYALA

National letters and Sail Number US 12 **Club** Y.C.Italiano

Designer O.J. Stephens

Builder H.B.Nevin Inc (USA) **Building Year** 1938

Owner Patrizio Bertelli

Owner's Address Arezzo Italy

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: 21-Apr-19

Measurer N Sironi/ K McAlpine Signature Nicole


Valid until 21-Apr-21

Supersedes 12-Jul-16

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

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

Signature K McAlpine
ITMA Technical Director


Stamp of Authority of the
International Twelve Metre Association

PROVISIONAL CERTIFICATE REVALIDATION

This yacht has been declared by the Owner to be unchanged from her previous revalidated certificate dated 21-Apr-2019. Accordingly this certificate has been revalidated and remains valid until Jan 26, 2025 subject to a successful flotation being carried out by a class measurer prior to racing.

Signature K.-E. Brink Jan 26, 2023
K.-E. Brink on behalf of ITMA Technical Director

RATING CALCULATION

OVERALL LENGTH **21.375**

Overhang Forward to FGS	2.848	
Overhang Aft to AGS	3.498	
Total Overhang (Subtract)	6.346	

MEASURED LENGTH (L_{BG}) **15.029**

Girth at Bow	1.595	
Twice vertical Height at Bow (Subtract)	1.200	
Girth Difference at FGS	0.395	
Add 1.5 Girth Difference at FGS (min 0.540 m)	0.593	
Girth at Stern	3.440	
Twice vertical Height at Stern (Subtract)	1.770	
Girth Difference at AGS	1.670	
Add 1/3 Girth Difference at AGS (min 0.400 m)	0.557	
Add any penalty (Beam or Displacement)	0.000	

Sum of Length and Girth Corrections **16.178**

Age/Date Correction Factor (ADCF)(see page 3) 0.9595

LENGTH (L) **15.523**

Skin IM to d1 Port	1.850	
Chain IM to d1 Port	1.822	
d Port	0.028	
Skin IM to d1 Starboard	1.850	
Chain IM to d1 Starboard	1.818	
d Starboard	0.032	
Add d	0.060	

Add GIRTH 2 d **0.120**

	Datum Sta.	Actual Sta.	Rating FB
Mean Freeboard Bow		1.405	1.405
Mean Freeboard Midship		1.150	1.150
Mean Freeboard Stern		1.065	1.065
Sum of Freeboards			3.620

Subtract FREEBOARD, F **1.207**

Add SAIL AREAS (Square root) **13.326**

TOTAL OF MEASUREMENTS **27.762**

PENALTY (Draft or Tumblehome) 0.000

RATING **11.714**

Date and Place of Measurement	21-Apr-19	
Measurer's Name(s)	N Sironi/ K McAlpine	Signature

Yacht's name : NYALA		Date	21-Apr-19
Range Measurement (Yes or No)	N	Date:	25-Apr-19

PENALTIES

Overhang Forward to MWL	3.482	
Overhang Aft to MWL	4.225	
Subtract from overall length	7.707	
Difference of immersion from salt to fresh water	Meas. Density	
WATERLINE LENGTH (LWL)		13.668
Minimum Displacement for Zero Penalty [m3]	23.978	
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)	24.577	
WEIGHT [tonne] Actual weight		Append E
Equivalent LWL (for Displ. < min.)		
Difference		
DISPLACEMENT PENALTY (add to L)		0.000
Displacement Determination Method		
DRAFT (actual)	2.662	
Max. Draft for Zero Penalty	2.687	
Difference (if positive)		
DRAFT PENALTY (add to Rating)	Append E	0.000
BEAM (Min)	3.600	
Max Beam at 1/3 of Midship Freeboard	3.628	
Difference (if positive)		
BEAM PENALTY (add to L)		0.000
Tumblehome Max. (2 x 2% of Extr. Beam)	0.145	
Extreme Beam	3.628	
Beam at deck	3.628	
Difference (if positive)	0.000	
TUMBLEHOME PENALTY (add to Rating)		0.000

Date and Place of Measurement	21-Apr-19	
Measurer's Name(s)	N Sironi/ K McAlpine	Signature <i>Nicole K...</i>

Design/Age Correction Factor Calculation		
Age Date	1938	
ADCF (Table E-2)	0.9595	
Hull Alteration Scope and Date		
Appendage Change Scope and Date		
Change/Alteration Correction ADCF		
Accommodation Deficiency Ballast	none	

Yacht's name : NYALA

Date

21-Apr-19

SAIL PLAN

Max Height of Sail Plan =	<input type="text" value="25.000"/>	J=	<input type="text" value="6.650"/>	I =	<input type="text" value="18.750"/>
Boom above Mast Datum =	<input type="text" value="1.250"/>	P=	<input type="text" value="23.750"/>	E=	<input type="text" value="10.720"/>
Rated Mainsail Area	<input type="text" value="127.300"/>	Spi boom=	<input type="text" value="6.650"/>	√S=	<input type="text" value="13.326"/>
J used for Rating	<input type="text" value="6.650"/>				
Rated Foretriangle Area	<input type="text" value="52.992"/>	Propeller allowance		<input type="text" value="0.985"/>	
TOTAL RATED SAIL AREA (S)	<input type="text" value="180.292"/>	Corrected sail area		<input type="text" value="177.588"/>	

SAIL LIMITS

Mainsail max girth:	1/2 height (68% of E)	<input type="text" value="7.290"/>	3/4 height (41% of E)	<input type="text" value="4.395"/>
Genoa:	max. foot length (J + 4.8m)	<input type="text" value="11.450"/>		
Spinnaker:	1/2 foot max breadth (125% J)	<input type="text" value="8.313"/>	max. luff length=	<input type="text" value="18.415"/>

Spar Measurement

MAST (material)	<input type="text" value="wood"/>	Mast Weight	<input type="text"/>	CG pos.	<input type="text"/>
Mast dimensions [mm]	Deck <input type="text" value="245x310"/>	Half-Height	<input type="text"/>	Jib-Halyard	Head <input type="text"/>
Sections area [cm ²]	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Mast CG Correction (if applicable) Wt & CG	<input type="text"/>			Mk ²	<input type="text"/>

Engine/Propeller Installation

Engine and propeller weight	<input type="text" value="Yes"/>	Propeller diameter =	<input type="text" value="0.533"/>
Minimum boat speed with engine	<input type="text"/>	Propeller position =	<input type="text"/>
Propeller Type (folding feathering fixed pitch etc.), no of blades	<input type="text"/>		<input type="text"/>
Propeller Skew	<input type="text"/>		<input type="text"/>

Flotation

Internal Ballast	Amount	Loation from bow
Nil		

Measurer's Notes

- 1 Measured according to 1934 Rule
- 2 Age allowance take into account bermudian rig
- 3 Accommodation checked for compliance with 2018 Rule
- 4

Date and Place of Measurement

21-Apr-19

Measurer's Name(s)

N Sironi/ K McAlpine