

12



INTERNATIONAL TWELVE METRE CLASS

Yacht's Name NINI ANKER

National letters and Sail Number N 15 Club Flensburger Segel-Club

Designer Johan Anker

Builder Robbe & Berking Classics Building Year 1939

Owner Christoph Avenarius

Owner's Address Borracksweg 3
22587 Hamburg

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: August 16 2021

Measurer McAlpine Signature 

Valid until August 16 2023

Supersedes None

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

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

Signature 
ITMA Technical Director



Stamp of Authority of the International Twelve Metre Association

Yacht's name : NINI ANKER

Date August 16 2021

RATING CALCULATION

OVERALL LENGTH				21.732
Overhang Forward to FGS		2.927		
Overhang Aft to AGS		3.504		
Total Overhang (Subtract)		6.431		
MEASURED LENGTH (L_{BG})				15.301
Girth at Bow		1.638		
Twice vertical Height at Bow (Subtract)		1.200		
Girth Difference at FGS		0.438		
Add 1.5 Girth Difference at FGS (min 0.540 m)		0.657		
Girth at Stern		3.303		
Twice vertical Height at Stern (Subtract)		1.792		
Girth Difference at AGS		1.511		
Add 1/3 Girth Difference at AGS (min 0.400 m)		0.504		
Add any penalty (Beam or Displacement)		0.172		
Sum of Length and Girth Corrections				16.634
Age/Date Correction Factor (ADCF)(see page 3)	0.9777			
LENGTH (L)				16.262
Skin IM to d1 Port		2.076		
Chain IM to d1 Port		2.065		
d Port		0.011		
Skin IM to d1 Starboard		2.072		
Chain IM to d1 Starboard		2.059		
d Starboard		0.013		
Add d		0.024		
Add GIRTH 2 d				0.048
	Datum Sta.	Actual Sta.	Rating FB	
Mean Freeboard Bow		1.489	1.489	
Mean Freeboard Midship		1.117	1.117	
Mean Freeboard Stern		1.076	1.076	
Sum of Freeboards			3.682	
Subtract FREEBOARD, F			See Notes	1.210
Add SAIL AREAS (Square root)				13.340
TOTAL OF MEASUREMENTS				28.440
PENALTY (Draft or Tumblehome)			0.000	
RATING				12.000

Date and Place of Measurement

16-Jan-19 Flensburg

13-Aug-21 Helsinki

Measurer's Name(s)

McAlpine

Signature



Yacht's name : NINI ANKER		Date	August 16 2021
Range Measurement (Yes or No)	N	Date:	16-Jan-19

PENALTIES

Overhang Forward to MWL	3.505	
Overhang Aft to MWL	3.810	
Subtract from overall length	7.315	
Difference of immersion from salt to fresh water	Meas. Density	
WATERLINE LENGTH (LWL)		14.417
Minimum Displacement for Zero Penalty [m3]	27.912	
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)	28.610	
WEIGHT [tonne] Actual weight		28.126
Equivalent LWL (for Displ. < min.)	14.331	
Difference (if negative)	-0.086	
DISPLACEMENT PENALTY (add to L)		0.172
Displacement Determination Method	3D scan	
DRAFT (actual)	2.771	
Max. Draft for Zero Penalty	2.807	
Difference (if positive)		
DRAFT PENALTY (add to Rating)		0.000
BEAM (Min)	3.600	
Max Beam at 1/3 of Midship Freeboard	3.664	
Difference (if positive)		
BEAM PENALTY (add to L)		0.000
Tumblehome Max. (2 x 2% of Extr. Beam)	0.145	
Extreme Beam	3.620	
Beam at deck	3.590	
Difference	0.030	
TUMBLEHOME PENALTY (add to Rating)		0.000

Date and Place of Measurement	16-Jan-19 Flensburg	13-Aug-21 Helsinki	Signature
Measurer's Name(s)			

Design/Age Correction Factor Calculation			
Age Date	1939		
ADCF (Table E-2)	0.9777		
Hull Alteration Scope and Date			
Appendage Change Scope and Date			
Change/Alteration Correction ADCF			
Accommodation Deficiency Ballast	See Flotation Notes		

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SAIL PLAN

Max Height of Sail Plan =	<input type="text" value="25.000"/>	J=	<input type="text" value="7.765"/>	I =	<input type="text" value="18.750"/>
Boom above Mast Datum =	<input type="text" value="1.220"/>	P=	<input type="text" value="23.780"/>	E=	<input type="text" value="9.763"/>
Rated Mainsail Area	<input type="text" value="116.082"/>	Spi boom=	<input type="text" value="7.760"/>	√S=	<input type="text" value="13.340"/>
J used for Rating	<input type="text" value="7.765"/>				
Rated Foretriangle Area	<input type="text" value="61.877"/>	Propeller allowance		<input type="text" value="1.000"/>	
TOTAL RATED SAIL AREA (S)	<input type="text" value="177.959"/>	Corrected sail area		<input type="text" value="177.959"/>	

SAIL LIMITS

Mainsail max girth:	1/2 height (68% of E)	<input type="text" value="6.639"/>	3/4 height (41% of E)	<input type="text" value="4.003"/>
Genoa:	max. foot length (J + 4.8m)	<input type="text" value="12.565"/>		
Spinnaker:	1/2 foot max breadth (125% J)	<input type="text" value="9.706"/>	max. luff length=	<input type="text" value="18.735"/>

SPAR MEASUREMENT

MAST (material)	<input type="text" value="wood"/>	Mast Weight	<input type="text" value="484"/>	CG pos.	<input type="text" value="9.923"/>
Mast dimensions [mm]	Deck <input type="text"/>	Half-Height <input type="text"/>	Jib-Halyard <input type="text"/>	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="n/a"/>	Propeller diameter =	<input type="text"/>
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

- 1 The water tank was filled with 115 l water when the yacht was presented for measurement.
- 2 The yacht carries 12.5 kg ballast to compensate partly missing front bulkhead.
- 3
- 4
- 5
- 6

Measurer's Notes

- 1 Rated freeboard is one third of the sum of the mean freeboards as per 1933 rule
- 2 ADCF set to the value of 0.9777 as per owner's instruction
- 3 Yacht launched in 2015 to 1939 Anker design

Date and Place of Measurement

16-Jan-19 Flensburg

13-Aug-21 Helsinki

Measurer's Name(s)

McAlpine

