

12



INTERNATIONAL TWELVE METRE CLASS

Yacht's Name TRIVIA

National letters and Sail Number K 10 Club Kieler Yacht Club

Designer Camper & Nicholson

Builder Camper & Nicholson Building Year 1937

Owner Trivia GmbH


Owner's Address Rothenbaumchaussee 69, 20148 Hamburg, Germany

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: 6-Aug-19


Measurer Kay-Enno Brink Signature 


Valid until 6-Aug-21

Supersedes July 12, 2014

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 : TRIVIA

Date

6-Aug-19

RATING CALCULATION**OVERALL LENGTH**

21.257

Overhang Forward to FGS

2.659

Overhang Aft to AGS

2.842

Total Overhang (Subtract)

5.501

MEASURED LENGTH (LBG)

15.756

Girth at Bow

1.629

Twice vertical Height at Bow (Subtract)

1.200

Girth Difference at FGS

0.429

Add 1.5 Girth Difference at FGS (min 0.540 m)

0.644

Girth at Stern

2.807

Twice vertical Height at Stern (Subtract)

1.500

Girth Difference at AGS

1.307

Add 1/3 Girth Difference at AGS (min 0.400 m)

0.436

Add any penalty (Beam or Displacement)

0.000

Sum of Length and Girth Corrections

16.835

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

0.9589

LENGTH (L)

16.143

Skin IM to d1 Port

2.073

Chain IM to d1 Port

2.066

d Port

0.007

Skin IM to d1 Starboard

2.100

Chain IM to d1 Starboard

2.090

d Starboard

0.010

Add d

0.017

Add GIRTH 2 d

0.034

Mean Freeboard Bow

Datum Sta.	Actual Sta.	Rating FB
	1.412	1.412
	1.065	1.065
	0.930	0.930
		3.406

Mean Freeboard Midship

Mean Freeboard Stern

Sum of Freeboards

See Notes

1.135

Subtract FREEBOARD, F**Add SAIL AREAS (Square root)**

13.398

TOTAL OF MEASUREMENTS

28.440

PENALTY (Draft or Tumblehome)

0.000

RATING

12.000

Date and Place of Measurement

5-Aug-19 Kiel

Measurer's Name(s)

Kay-Enno Brink


Signature



Yacht's name : TRIVIA		Date	6-Aug-19
Range Measurement (Yes or No)	N	Date:	

PENALTIES

Overhang Forward to MWL		3.147	
Overhang Aft to MWL		3.627	
Subtract from overall length		6.774	
Difference of immersion from salt to fresh water	Meas. Density		
WATERLINE LENGTH (LWL)			14.483
Minimum Displacement for Zero Penalty [m3]		28.278	
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)		28.985	
WEIGHT [tonne] Actual weight			27.830
Equivalent LWL (for Displ. < min.)		14.278	
Difference		-0.205	
DISPLACEMENT PENALTY (add to L)			Appendix E
Displacement Determination Method		3D-Scan	
DRAFT (actual)		2.835	
Max. Draft for Zero Penalty		2.817	
Difference (if positive)		0.018	
DRAFT PENALTY (add to Rating)			Appendix E
BEAM (Min)		3.600	
Max Beam at 1/3 of Midship Freeboard		3.571	
Difference (if positive)		0.029	
BEAM PENALTY (add to L)			0.000
Tumblehome Max. (2 x 2% of Extr. Beam)		0.144	
Extreme Beam		3.608	
Beam at deck		3.494	
Difference (if positive)		0.114	
TUMBLEHOME PENALTY (add to Rating)			0.000

Date and Place of Measurement	5-Aug-19 Kiel		
Measurer's Name(s)	Kay-Enno Brink	Signature	

Design/Age Correction Factor Calculation			
Age Date	1937		
ADCF (Table E-2)	0.9589		
Hull Alteration Scope and Date			
Appendage Change Scope and Date			
Change/Alteration Correction ADCF			
Accommodation Deficiency Ballast	none		

Yacht's name : TRIVIA

Date

6-Aug-19

SAIL PLAN

Max Height of Sail Plan = J= I =
 Boom above Mast Datum = P= E=
 Rated Mainsail Area Spi boom= \sqrt{S} =
 J used for Rating
 Rated Foretriangle Area Propeller allowance
 TOTAL RATED SAIL AREA (S) Corrected sail area

SAIL LIMITS

Mainsail max girth:
 Genoa:
 Spinnaker:

Spar Measurement

MAST (material) Mast Weight CG pos.
 Deck Half-Height Jib-Halyard Head
 Mast dimensions [mm]
 Sections area [cm²]
 Mast CG Correction (if applicable) Wt & CG Mk²

Engine/Propeller Installation

Engine and propeller weight Propeller diameter =
 Minimum boat speed with engine Propeller position =
 Propeller Type (folding feathering fixed pitch etc.), no of blades
 Propeller Skew

Flotation

- 1 35 kg accommodation compensation ballast to account for partly missing bulkheads
- 2 45 kg accommodation compensation ballast to account for missing water tank
- 3 115 kg accommodation compensation ballast to account for missing fresh water
- 4 173 kg internal ballast placed in the bilge 12.9 m behind the stem

Measurer's Notes

- 1 Rated freeboard is one third of the sum of the mean freeboards as per 1933 rule
- 2 No beam penalty as minimum beam restriction was not introduced until 1938
- 3 No draft penalty for Appendix E certificate
- 4 No displacement penalty for Appendix E certificate

Date and Place of Measurement

5-Aug-19 Kiel

Measurer's Name(s)

Kay-Enno Brink

