



12

INTERNATIONAL TWELVE METRE CLASS

Yacht's Name	<i>TRIVIA (No Engine)</i>	
National letters and Sail Number	<i>K-10</i>	Club
Designer	<i>Charles Nicholson</i>	
Builder	<i>Camper and Nicholson</i>	Building Year <i>1937</i>
Owner	<i>Trivia GmbH</i>	
Owner's Address	<i>Rothenbaumchaussee 69, 20148, Hamburg, Germany</i>	
Lloyds R class certificate (Number or Date)	<i>Lloyds</i>	

APPENDIX E 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 July 12, 2014

Measurer K McAlpine

Signature 

Valid until July 11, 2016

Supersedes September 18, 2007

Signature 
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 July 12, 2014.

Accordingly this certificate has been revalidated and remains valid until January 22, 2025 subject to a successful flotation being carried out by a class measurer prior to racing.

Signature 
ITMA Technical Director April January 21 2023

RATING CALCULATION

OVERALL LENGTH			21.271
Overhang Forward to L1		2.650	
Overhang Aft to L1		2.694	
Total Overhang (Subtract)		5.344	
MEASURED LENGTH (L1 L1)			15.927
Girth at Bow		1.630	
Twice vertical Height at Bow (Subtract)		1.200	
O at Bow		0.430	
Add 1 1/2 O at Bow (min 0.540 m)		0.645	
Girth at Stern		2.892	
Twice vertical Height at Stern (Subtract)		1.572	
O at Stern		1.320	
Add 1/3 O at Stern (min 0.400 m)		0.440	
Add any penalty (Beam)		0.000	
Sum of Length and Girth Corrections			17.012
Age Date and Allowance	1937	Allowance	0.9590
CORRECT LENGTH L			16.314
Skin d to d1 Port			
Chain d to d1 Port			
d Port		0.014	
Skin d to d1 Starboard			
Chain d to d1 Starboard			
d Starboard		0.014	
Add d		0.028	
Add GIRTH 2 d			0.056
Mean Freeboard Bow O	Actual	1.405	1.405
Mean Freeboard Midship d	Actual	1.066	1.066
Mean Freeboard Stern O	Actual	0.966	0.966
Sum of Freeboards			3.437
Subtract FREEBOARD, F			See Notes
Add SAIL AREAS (Square root)			1.146
TOTAL OF MEASUREMENTS			13.217
<i>PENALTY (Draught)</i>			28.441
		0.000	
RATING			12.000

Date and place of Measurement

July 12, 2014

Measurer's Name(s)

K McAlpine

Signature



PENALTIES

Overhang Forward to L	3.170
Overhang Aft to L	3.518
Subtract from overall length	6.688
Difference of imersion from salt to fresh water	

WATERLINE LENGTH

Minimum Displacement for Zero Penalty [m3]	28.838
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)	29.559

14.583

WEIGHT [ton] Additional weight

Equivalent LWL (for Displ. < min.)	
Difference	
DISPLACEMENT PENALTY (add to L)	

Append E Cert

Append E Cert

DRAUGHT (actual)

Max. Draught for Zero Penalty	2.832
Difference (if positive)	2.799
DRAUGHT PENALTY (add to Rating)	0.033

0.000

BEAM (Min)

Max Beam at 1/3 of Midship Freeboard	3.600
Difference (if positive)	3.610
BEAM PENALTY (add to L)	-0.010
Tumblehome Max. (2 x 2% of Extr. Beam)	0.144
Extreme Beam	3.610
Beam at deck	3.510
Difference (if positive)	0.100
TUMBLEHOME PENALTY (add to Rating)	

0.000

0.000

Date and place of Measurement

July 12, 2014

Measurer's Name(s)

K McAlpine

Signature



SAIL PLAN

Max Height of Sail Plan =	<input type="text" value="25.000"/>	J=	<input type="text" value="6.880"/>	I =	<input type="text" value="18.740"/>
Boom Height =	<input type="text" value="1.220"/>	A=	<input type="text" value="23.780"/>	B=	<input type="text" value="10.084"/>
Rated Mainsail Area	<input type="text" value="119.899"/>	Spi boom=	<input type="text" value="6.880"/>	eS=	<input type="text" value="13.217"/>
Rated Foretriangle Area	<input type="text" value="54.796"/>	Propeller allowance			<input type="text" value="1.000"/>
TOTAL RATED SAIL AREA	<input type="text" value="174.695"/>	Corrected sail area			<input type="text" value="174.695"/>

SAIL LIMITS

Mainsail max girth:	1/2 height (68%)	<input type="text" value="6.857"/>	3/4 height (41%)	<input type="text" value="4.134"/>
Genoa:	max. foot length (J + 4.8m)	<input type="text" value="11.680"/>		
Spinnaker:	1/2 foot max breadth (125% J)	<input type="text" value="8.600"/>	max. luff length=	<input type="text" value="18.470"/>

Spar Measurement

MAST (material)	<input type="text" value="Aluminium"/>	Mast Weight	<input type="text"/>	CG pos.	<input type="text"/>
	Deck	Half-Height	Jib-Halyard	Head	
Mast dimensions [mm]	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Sections area [cm ²]	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

Engine/Propeller Installation

Engine and propeller weight	<input type="text"/>	Propeller diameter =	<input type="text"/>
Minimum boat speed with engine	<input type="text"/>	Propeller position =	<input type="text"/>
Engine model and power	<input type="text" value="None"/>		

Flotation

Internal Ballast	<input type="text" value="Nil"/>
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>

Measurer's Notes

1	Measured according to 1934 Rule
2	Age Allowance takes account of Bermudian rig
3	Certificate assumes engine and prop are NOT fitted whilst racing
4	Certificate based on float in Barcelona and calculations from IMS Hull Data
5	

Date and place of Measurement

July 12, 2014

Measurer's Name(s)

K McAlpine

Signature

