

STEEL YACHT.

BOX CASE, 14376

No. 11316

State if Report is also sent on the Machinery of the Vessel *Yes*Port of *Southampton* Date of completion of Report *3rd Aug.*

Received at London Office

Survey held at *Southampton* Date of First Survey *March 30th 1921* Last Survey *July 22nd 1922*On the *Steel Twin Screw Yacht "SONA"*

REGISTERED DIMENSIONS.

Length *169.85*
Breadth *29.00*
Depth *14.3*

REGISTERED TONNAGE.

Under deck *411.02*
Gross *519.59*
247.77

Height of Stem to
Post on Deck *170.0*

Measurement *554*

*145389**K.M.P.H.**ts Two*CLASS *100-A-1.*

FEET.

Half Breadth (moulded) *13.416*
Depth from top of Keel to top of Upper Deck
Beams at centre (with the normal round up of Beam) *15.978*
Half Midship Girth outside of frames from
centre line at top of Keel to top of beam
at side *24.252*
Twice Bilge Diagonal from top of Upper Deck
Beam at centre to the moulding edge of Frames
(as per Rule) *32.914*
Transverse Number *36.560*
Length from outside of Stem to outside of Sternpost
or Counter at 15 of Rule depth below top
of Beams at centre *177.50*
Longitudinal Number when the proportion
of Length to Depth does not exceed seven... *1.41*
Proportion—Length to Depth *11.02*
Longitudinal Number when the propor-
tion of Length to Depth exceeds seven... *21663.80*

Built at *Southampton*When built *1922*Launched *6th June 1922.*By whom built *Camper Nicholson & Co*Owner *Earl of Dunraven*Residence *Adare Manor,**Adare Co. Limerick.*Port belonging to *Southampton*If Surveyed while Building, *Yes.*
+ Afloat, or in Dry DockDesigner *C. E. Nicholson.*Sailmaker *Ratsey & Lapthorn.*

	In Yacht.			Required per Rule or as approved.		
	Ins.	Ins.	20ths.	Ins.	Ins.	20ths.
Length amidships	42	3	7	42	3	7
" at ends if reduced...						
Keel to heel	22			22		
Angles	22	22	5	22	22	5
Length amidship	20		6	20		6
Way of Engines			7			7
" Boilers						
Ends of Vessel			5			5
Keel, if straight on upper edge...	20			20		
if extended up the bilge...	level			level		
Centre Girder, depth and thickness						
Plates to Top of Centre Girder...						
Bottom " " "						
Girders, Floors and Brackets						
" Angles						
Stringer Plate, depth and thickness						
Angle to outside plating...						
Frames						
in way of Boilers...						
Frames and Reversed Frames...						
Over Bottom, middle line strake...						
Thickness in Engine space						
" Boiler space...						
" Holds...						
Angle, Bulb Plate, or Bulb Tee	7	3	8	7	3	8
at ends ordinary	52	3	7	52	3	7
Angles to Bulb Plate						
Spacing	44			44		
Angle, Bulb Plate, or Bulb Tee	6	3	8	6	3	8
at ends	52	3	7	52	3	7
Angles to Bulb Plate						
Spacing	44			44		
Deck Beams, size and spacing	24	3 1/2	12	24	3 1/2	12
Beams " " "						
and spacing	2 in E.R.			2 in E.R.		
Thickness and thickness	12	3	6	12	3	6
for angle						

	In Yacht.			Required per Rule or as approved.		
	Ins.	Ins.	20ths.	Ins.	Ins.	20ths.
for record in Y. Reg.	4					
Thickness of plating			5			5
Frames, size	3	2 1/2	6	3	2 1/2	6
spacing	22			22		

FORGINGS AND CASTINGS.

	In Yacht.			Required per Rule or as approved.		
	Ins.	Ins.	20ths.	Ins.	Ins.	20ths.
Keel (Bar or Side Plates)	7	1 3/4		7	1 3/4	
Stem	7	1 3/4		7	1 3/4	
Stern-post, without aperture	8	2 1/2		8	2 1/2	
Stern and Propeller post, with aperture						
Rudder, diameter of Head and Main piece	6 1/2			6 1/2		
" " Pintles	3 1/4			3 1/4		
" Thickness of Plate or Plates	7/20			7/20		
" How constructed	Double plate					

KEELSONS AND STRINGERS.

	In Yacht.			Required per Rule or as approved.		
	Ins.	Ins.	20ths.	Ins.	Ins.	20ths.
Centre Line Keelson, Vertical Plate or Bulb on top of Floors	7	7-6	20	7	7-6	20
" Intercoastal Plate			6			6
" Rider Plate						
" Angles	3 1/2	3 1/2	7-6	3 1/2	3 1/2	7-6
Side Keelson, Angles						
" Intercoastal Plate						
Bilge Keelson, Angles	6	4	9-8	6	4	9-8
" Intercoastal Plate						
Bilge Stringer, Angles						
" Intercoastal Plate						
Side Stringer, Angles	4	3	7	4	3	7
" Intercoastal Plate			6/20			6/20

DECKS.

	In Yacht.		Required per Rule or as approved.	
	Inches.	20ths.	Inches.	20ths.
Upper Deck Stringer Plate, breadth and thickness	50 1/2	6	50 1/2	6
" " " Angle	3 1/2 x 3 1/2	7-6	3 1/2 x 3 1/2	7-6
" " Tie plates, Fore-and-aft	8 1/2	7-6	8 1/2	7-6
" " " Diagonal, No. of pairs				
" Wood Deck, Material & thickness	Teak	2 3/4 x 2 3/4	2 3/4 x 2 3/4	
Cabin Sole Stringer Plate, breadth and thickness	23	6/20	23	6
" " " Angles	3 1/2 x 3 1/2	6	3 1/2 x 3 1/2	6

State whether Framing and Plating are of Iron or Steel *steel*

Manufacturer's name or trade mark of the Iron or Steel used for Frames, Floors, Beams,

Keelsons, Tie and Stringer Plates, outside Plating, &c.?

*Port Talbot - Stewart Lloyd*State process of manufacture of Steel *Open hearth process*Has the Steel been tested as required by the Rules *Yes*

W319-0159 (112)

PLATING.										RIVETING.																			
AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.				BUTTS.				IF LAPPED.															
STRAKES.		AMIDSHIP.		FORWARD.		AFT.		AMIDSHIP.		Single or Double.		Breadth of Lap.		Diam.		Spacing or to cr.		Diam.		Spacing or to cr.		Breadth.		Thick.		Breadth.		For what Length.	
		Inches.		20ths.		20ths.		Inches.		20ths.		Inches.		20ths.		Inches.		20ths.		Inches.		20ths.		Inches.		20ths.		Inches.	
FLAT PLATE KEEL.....		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
GARBOARD OF A STRAKE.....		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
B "		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
C "		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
D "		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
E "		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
F "		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
G "		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
H "		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
J "		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
K "		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
L "		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
M "		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	

Lengths of Plating: Butts, treble riveted for full length amidship.

Main Stringer Plate: Butts, treble riveted for full length amidship.

Butts of Bilge & Side Stringers, and Tie Plates, treble or double riveted? full

FRAMES extend in one length from Keel to Deck (Keel to lower D^o in way of Tanks) state if ordinary or joggled ordinary

REVERSED FRAMES on floors and frames extend from main floor state if ordinary or joggled ordinary

MASTS, SPARS, &c.

	Material	Total length.	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.	
			At Partners.	Heel.	Hounds.	Head.		Number.	Size.	Seams.	Butts.
Fore	O.P.	83'-8"	14	1 1/2	12 1/4	6	✓				
Main	O.P.	81'-8"	14	12	12 1/4	6	✓				
Mizen											

Bowsprit: ✓

Topmasts, Yards and Remainder of Spars: Oregon square steel yds. 45'-0" O.A. 7 1/2" dia.

Standing and Running Rigging: S.W.R. sufficient in size and good in quality.

Sails: one suit of canvas Sails, and the following spare sails ✓

Boats: 25 ft. motor launch, 24'0" motor launch, 21'-0" gig, 15'-0" dingy.

Windlass, Maker's name: Reids, Paisley. Capstan: Rude, Paisley. Pumps: 42' Swinton pump.

Coamings, Skylights & Companions—State whether strong and efficient, and properly protected: wood.

EQUIPMENT No. 16253 LETTER C

ANCHORS.

No. of Certificate.	ANCHORS.	Weight, ex Stock.		Test, per Certificate.		Weight required by Table 24 or 25.		Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Owts.	qrs.	Owts.	qrs.	Owts.	qrs.			
37072	Bower	10	0 14	2	2 8	17	2 0 21	9 3	Thomas Nicholson	not stated
37071	"	9	0 4	2	1 12	11	2 2 0	9 0	"	"
37070	"	8	1 22	2	0 12	10	12 2 0	8 1	"	"
37069	Stream	3	0 0	3	4 5	10	9 0 3	"	"	"
37068	Kedge	1	2 8	1	20 4	1	2 7 1	2	"	"

CHAIN CABLES.

No. of Certificate.	Length and size supplied.		Test per Certificate.	Weight of Chain Cable.		Length and size per Table 24 or 25.		Description.	Makers of Cables.	When and where tested and Superintendent.	Material.	Length and size supplied.		Breaking Test of Steel Wire Towline.	Length and size per Table 24 or 25.		
	Length.	Diam.		Proof.	Break.	Supplied.	Per Table 24 or 25.					Length.	Diam.		Length.	Cr.	Length.
32576	180	1 1/2	22 1/2	34 1/2	21 3/16	116 2/4	180	1 1/2	Stud Sunk	Hendrick Mfg Co. N.Y. 4/21/21. S. Paul	TOWLINE	90	3/8	90	8	90	8
	60	1 1/16	8 1/2	12 1/4	16 1/8		60	1 1/16	Stud Sunk	"	WARP	90	5/8	90	5	90	5

General quality of Workmanship: good.

We certify that the above is a correct description of the several particulars therein given.

Surveyor's Signature: John A. Phillips & G. A. Dryden Toyn.

Builder's Signature: CAMPER & NICHOLSONS, L.

Surveyor to Lloyd's Register of British and Foreign Shipping.

YACHT.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with the case) M. 3/3/21; 5/3/21; M. 9/3/21; M. 20/3/21; M. 1/4/21; M. 22/4/21; M. 29/4/21; M. 26/5/21; M. 3/5/21; M. 13/5/21; M. 2/6/21; M. 7/10/21.

Workmanship. Are the butts of plating planed or otherwise fitted? Planed when practicable, shipped elsewhere.

Is the riveted work properly closed? Yes. Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes. Are the rivet holes well and sufficiently countersunk in the plate and punched from the facing surfaces? Yes. Do any rivets break into or through the seams or butts of the plating? a few

Are the butts of Plating, Stringers, &c., properly shifted and strapped or overlapped? Yes. Are the rivets well and sufficiently countersunk in the plate and punched from the facing surfaces? Yes. Do any rivets break into or through the seams or butts of the plating? a few

General Remarks (State quality of workmanship, &c.) Good. This vessel has been built in accordance with the approved plans, the secretaries letters referred to above and in general conformity with the rules for the class contemplated. Workmanship and materials are good. Oil fuel tanks hydraulically tested and found satisfactory. All oil fuel requirements as far as they apply have been complied with.

Forging certificates and 7 plans herewith.

The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the YACHT REGISTER BOOK.—Length of Poop 13.66 ft., R.Q.D. or Break ✓ ft., Bridge Dk. ✓ ft., F'castle 29.16 ft. (in feet and tenths) where the Poop is on top of the R.Q.D., or when the Poop or R.Q.D. is joined to the B.D., this should be distinctly stated ✓

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Yacht Register Book) Two dks 4 B.H. cm. State if Machinery is fitted aft no. Official No. 145389; Signal Letters K.M.P.H. Outside Paint

How are the surfaces preserved from oxidation? Inside Paint Outside Paint

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system ✓

Where fitted.	*Length.		Where fitted.	*Length.	
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	✓	✓	Fore peak tank,	✓	✓
Double bottom, under Engines and Boilers,	✓	✓	After peak tank,	✓	✓
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,	✓	✓
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward F.W.T. 58-64	11	30
Double bottom, forward,	✓	✓	Other tanks, if fitted, O.F.T. 46-58.	22	75.3 Tons at 93 S.G.

Total capacity ✓ State whether the above have been tested as required by the Rules Yes.

* The walls are not to be included in the lengths of the tanks.

Order for Special Survey, No. 18/3/21 Dates of Surveys held while building: March 30, April 5, 12, 15, 21, 25, 29, May 10, 18, 20, 26, June 4, 13, 16, 21, 23, 27, July 5, 13, 22, 29, Aug. 8, 15, 18, 26, Sept. 1, 2, 9, 23, 27, Oct. 3, 10, 14, 25, Nov. 3, 7, 10, 14, 18, 21, 25, Dec. 2, 7, 14, 15, 21, 25, 30, 1922 Jan. 12, 20, Feb. 10, 15, 23, 29, March 29, July 10, 13, 14, 22.

No. 307 in Builder's Yard. Total No. of Visits 60.

Fee for Special Survey.....£ 48 : 15 : 0 8/8/1922 Fees applied for, ✓

Travelling Expenses, if any...£ : : : 8/9/22 Received by me, ✓

State whether the Vessel has been built under Special Survey Yes. Certificate to be sent to Gov.

I am of opinion this Vessel should be classed 100. A.1. For A. Phillips & John A. Toyn. Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. 18 AUG. 1922 100 A.1

Character assigned in fact + Register + 2 1/2 hp oil engines

Wink Gls. Lloyds Arb. P.

The Surveyors are requested not to write on or below the Committee's Minute.

W319-0159 (22) Lloyd's Register Foundation