

FORGINGS or CASTINGS.		Inches per Rule, Or as Approved.
KEY, stem depth and thickness LOWER PART C.S. UPPER PART FORGED	FLAT PLATE.	
STEM, moulding and thickness	$19\frac{1}{2} \times 2\frac{1}{2}$	$9\frac{1}{2} \times 2\frac{1}{2}$
STERN-POST for Rudder do. do.	$8\frac{1}{2} \times 6\frac{1}{2}$	$8\frac{1}{2} \times 6\frac{1}{2}$
" for Propeller	$19\frac{1}{2} \times 6\frac{1}{2}$	$9\frac{1}{2} \times 6\frac{1}{2}$
RUDDER—A X D° Table 22. Speed 10-12	248-66	
Main-Piece, diameter at head	8 ✓	8.
at heel	6. ✓	6.
Single Plate Arms shrunk on and		

RUDDER, how constructed *single plate* *keyed to Main piece.*
 " Thickness of ~~Plate or~~ Single Plate *1-04*
 Can the Rudder be unshipped afloat? *YES.*

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c. ? *Open Hearth.*
Cargo Fleet. Dorman Long. Cowsett. Palmers. Bolckow
Vaughan. Frodingham. South Durham.

Has the Steel been tested as required by the Rules? Yes.

RIVETING.

EDGES.				BUTTS.					
ORDINARY									
Single or Double.	Breadth of Lap.	RIVETS.		RIVETS.		STRAFS.		IF LAPPED.	
		Diam.	Spacing or to cr.	Diam.	Spacing or to cr.	Breadth.	Thick-ness.	Breadth.	For w-Lap or Feet
		Inches.	Inches.	Inches.	Inches.	Inches.	inches.	inches.	
DOUBLE	6 1/2	1 1/8	4 3/8	QUAD-TIE	1 1/8	4 1/2		16	Full
"	5 1/2	7/8	3 1/2	QUAD 1/2 L.	7/8	3 1/2		12	
"	"	"	"	"	"	"		"	"
"	"	"	"	"	"	"		"	"
"	"	"	"	TREBLE	"	3 1/8		9	"
"	"	"	"	"	"	"		"	"
"	"	"	"	"	"	"		"	"
"	"	"	"	"	"	"		"	"
"	"	"	"	QUAD 1/2 L.	"	3 1/2		12	"
"	"	"	"	"	"	"		"	"
"	"	"	"	TREBLE	"	3 1/8		9	"
"	"	"	"	QUAD.	"	3 1/2		12	"

in Midship thickness maintained
Bulkhead.

At ends of Bridge 60 and for a
length of 20-60 36 ✓

DOUBLE	6	1	4 ³ / ₂	QUAD	1	4	✓	14
"	5 ¹ / ₄	7 ⁸	3 ¹ / ₂	"	7 ⁸	3 ¹ / ₂	✓	12
SINGLE	2 ¹ / ₂	3 ¹ / ₄	3	DOUBLE	3 ¹ / ₄	2 ⁵ / ₈	✓	5
SINGLE	2 ¹ / ₂	3 ¹ / ₄	3	DOUBLE	3 ¹ / ₄	2 ⁵ / ₈		5

Strokes and Strake below should also be stated clear of same.

er Deck	{ Butts, <u>TREBLE</u> riveted for $\frac{1}{2}$	length amidship.
nger Plate	{ <u>Straps</u> , single, double or overlapped for <u>FULL</u>	length amidship.
nd Deck	{ Butts, riveted for	length amidship.
nger Plate	{ <u>Straps</u> , single or overlapped for	length amidship.

Butts of Side Stringers ✓ riveted.
Tie Plates ✓ riveted.
Inner Bottom Plating, riveting of Edges DOUBLE / SINGLE Butts DOUBLE / SINGLE
Centre Girder Butts, TREBLE riveted. Keelson Butts, ✓ riveted.
Frames, riveted through Plates with 7/8 in. Rivets, about 6 apart.
Rivets, state whether Iron or Steel. IRON.

ES extend in one length from TANK SIDE to BRIDGE AND UPPER DECK ALTERNATELY State if ordinary or joggled JOGGED

R1 SED FRAMES on floors and in extend from CENTRE GIRDER TO TANK SIDE. State if ordinary or joggled JOGGED

MASTS, SPARS, &c.										
	Material.	Total Length.	DIAMETER AND THICKNESS.			No. of Plates in round.	ANGLES.		RIVETING.	
			At Partners.	Heel.	Head.		Number.	Size.	Seams.	Butts.
									SINGLE	TREBLE
LOWER MASTS.	Fore	Steel 47.0	21x40	21x40	17x35	TWO			"	"
	Main	" 48.0	21x40	21x40	17x35	"				
	Mizen									
Bowsprit										
Topmasts, Yards and Remainder of spars STEEL TOPMASTS 32.0 x 13' to 7' SINGLE SEAMS, TREBLE BUTTS.										
Rigging, Material and Size, Shronds Shronds 3 1/2 S.W. Stays 4' and 2 1/4' S.W.										
Sails.	None									
Sails, and the following spare sails ✓										

CHAIN CABLES.																			
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and Size per Table 31.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Test of Steel Wire.		Length and Size per Table 31.		
	Length.	Diam.	Status.	Breaking.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.	Length.	Cir.	Length.	Cir.	
13044	280	1 1/2	42	94 1/2	397 3/4	397 2/26	270	1 1/2	STOOLINK	N. BLOOMER & SONS	LOW MEYER	12-7-13-a.g.	FATHOMS	100	Ins.	Tons.	83	100	Ins.
13312	60	"	"	"	116-1.0	113-2.8			"	"	"	20-8-19-a.g.	HAWERS & WARPS	90	2 1/2	12 1/2	90	2 1/2	23
	270	"	"	"	574-0-4	571-1-14			"	"	"			90	2 1/2	9 1/2	90	2 1/2	2
	90	4 1/4	35				90	4 1/4						90	7	MANILLA	90	7	6
Boats Two dinghies @ 25.0. Two Dinghys @ 18.0																			
Pumps, Number One 3 inch 4 1/2 hp Force Pkck Top.																			
Windlass is American Walker & Thompson's Patent steam.																			
Steel plates & angles																			
Steering Gear, Steam John Denny & Co										Steering Gear, Hand Block & tackle									
Diameter of Barrel										State whether they are in efficient working order									
direct										acting.									
What arrangements for deadlights in bad weather?										Bulls eyes.									
Height above deck?										30'									

Engine Room Skylights, How constructed? *Steel plates & angles* How are lids secured? *See remarks* (Engine room)

Coal Bunker Openings.—How constructed? *2 1/2" pitch tune over bilges only* *Freeing ports* 42" x 21" each side

Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. *3 scuppers* *Cargo Battens*, thickness and material *Steel sparring 2 1/2" x 1/2"*

Ceiling in Holds, thickness and material *2 1/2" pitch tune over bilges only* *Hatches*, if strong and efficient? *Yes*

Cargo Hatchways.—How formed? *Steel plates and angles.* *No. 3 Hatch* 26.62 x 18.0 *No. 4 Hatch* 26.62 x 18.0

State size *No. 1 Hatch* (Forward) 26.62 x 18.0 *No. 2 Hatch* 26.62 x 18.0 *No. 3 Hatch* 26.62 x 18.0 *No. 4 Hatch* 26.62 x 18.0

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *5 shifting beams in No. 1, 2, 3 & 4 (3 in cooling hatch)* *cooling hatch* 12.3 x 18.0

No. of Breasthooks *6 and decks* *No. of Crutches* *Deck floors*

Bulwarks, height above deck and description *45" x .25" Steel plate* *Main Rail*, material and size *Steel B.G. 62x40 and 7 x .36 ball*

The foregoing is a correct description of *FRANC WHITWORTH & CO LIMITED* *Surveyor's Signature* *Arthur F. Jennings* *Surveyor to Lloyd's Register of Shipping.*

Builder's Signature (here only) *J. Saxton White*

For any correspondence connected with the case)

Correspondence.—State dates and initials of letters respecting this case (Reference should be made in any correspondence to the file number of this case.)

STANDARD VESSEL C. TYPE.

Are the buttons of plating planed or otherwise fitted? PLANED.

Is the riveted work properly closed? *Yes.*

Are the liners between the frames and plates solid single pieces? *Joggled frames.*

Are the rivet holes well and sufficiently countersunk in the plate and pun-
chons? *Yes.*

to plate, &c., conform well to each other? YES. Do any rivets break into or through the seams or butts of the plating? H TEN.
from the faying surfaces? YES. Do any rivets break into or through the seams or butts of the plating?
Butts of Plating Stringers, &c., properly shifted and ~~lapped~~ LAPPED. YES. YES. Satisfactory.
State results of tests

Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)? *Yes.* State results of tests *Satisfactory.* *app*

Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? *Yes.* State results of tests *Satisfactory.* *app*

This vessel has been built in accordance with the

General Remarks (State quality of workmanship, &c.) *Plans & in number forwarded herewith, the Secretary's letters and in compliance with the Rules for the 100 R. 1 Class.*

The workmanship and material are of good quality
The freeboards assigned by the Committee have been marked on the Vessels

edges and verified
Note: Cement fitted throughout in the Engine and Boiler Room tanks and

fillets only in the remaining cans -

The Surveyor should state the Number of Report and Plans to be forwarded with F.E. Report showing vessel as built.

Fees applied for, 21

CASTLE-ON-TYPE

Date of issue 12/11

The amount of Entry Fee	£ 69	5	12	1939	from	Certificate to be sent to	NEW
Special Survey Fee	£ 25	-	-	1939	Received by me	also	check
Travelling Expenses, if any	£ 3	12	1939	1939	to	Shirburn	Combridge

State whether the Vessel has been built under Special Survey *YES*
I am of opinion this Vessel should be Classed *100 A1. STEEL.*
WITHOUT
Arthur Jennings
Surveyor to Lloyd's Register of Shipping.

With, or without Freeboard, as condition of Class *1111001*

Committee's Minute **FRI. 31 OCT. 1919** *1111001* *1111001*

Character assigned 100A1

Lloyd's ar. c.p. * LMC 10-19-72

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Lloyd

GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 33 ft., R.Q.D. ✓ ft., Bridge 98 ft., Forecastle NOT JOINED.

(in feet and tenths). When the Poop 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 in feet and tenths).

Official No. 136154; Signal Letters 1 deck (Steel)

How are the surfaces preserved from oxidation? Inside Portland cement and paint State if Machinery is fitted aft No. Outside Paint

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors. Cellular

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.
Double bottom, aft,	102.	214	Fore peak tank,	
Double bottom, under Engines and Boilers,	39.	133	After peak tank,	
Double bottom, if under Engines only,			Deep tank, aft,	
Double bottom, if under Boilers only,	143.	364	Deep tank, forward,	
Double bottom, forward,		714	Other tanks, if fitted,	
			(If necessary, furnish further information by sketch.)	

Total capacity of double bottom 714

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

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

Order for Special Survey No. 474

Date 30.5.1918

No. 953 in builder's yard.

Dates of Surveys held while building

1918 May 14, Jun 15, Jul 5, 10, 15, 24, Aug 29, Sep 6, 10, 12, 18, 23, 24, 26, 27, Oct 1, 4, 9, 10, 11, 24, 25, 28, 29, 30, 31, Nov 4, 5, 7, 8, 15, 19, 20, 25, Dec 2, 10, 17, 19, 23, 30, 31, 1919 Jan 6, 7, 8, 27, 29, 30, 31, Feb 1, 11, 12, Mar 17, 21, Apr 15, 24, May 1, 2, 5, 7, 13, 19, 24, Jun 11, 13, 16, 17, 18, 20, 27, 29, 30, 31, Aug 10, 15, 22, 30, Oct 2, 3, 6, 10, 11.

Surveyor's Signature Arthur Jennings

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