

Shelter Deck,

STEEL STEAMER.

ESPANA

No. 52433

WED. MAR. 12. 1913

Port of Glasgow

Date of completion of Report Nov 10th 1912

State if Report is also sent on the Machinery of the Vessel Yes

Survey held at Glasgow

Date, First Survey 18th Oct 1911

Received at London Office

On the Steel Screw Steamer

" CANBERRA

Rig Schooner

1913

TONNAGE under 5119.91

CLASS 100 A1 Shelter Dk

FEET.

Master R. G. Doughty

Do. between Tonnage Dk. and 1544.92

Breadth (greatest moulded) 57.0

Year of Appointment

(1) As Master in service of
(2) As Master of this vessel

Total under Upper Dk. 6664.83

Depth at middle of length from top of keel to top of 33.25

Built at Glasgow

Do. of Poop

Depth at side of 90.25

Do. of R. Qr. Dk.

Deduct height of 'tween deck when this does not exceed 8ft. 8.0

When built 1913

Do. of Bridge House

Transverse Number 82.25

Do. of Forecastle

Length on deck from fore part of stem to after part of 410.0

Do. of Houses on Deck

Longitudinal Number 33722

Do. of excess of Hatchways

Depth "d" at middle of length. See Secs. 2 & 13. 13.66

Do. above Crown of

Proportions, Depths to Length, Uppermost Continuous Deck at side to top of keel 9.83

Gross Tonnage 7707.07

Upper Deck at side 16.45

Less Crew Space 415.05

Less above Crown of

Less Engine Room 162.74

Less Navigation Spaces 78.53

Register Tonnage 4306.58

Destined Voyage Australia

If Surveyed while Building, Afloat, & in Dry Dock Yes

LENGTH on			BREADTH			DEPTH, ACTUAL			Top of Floors to top of			Shelter Dk. Beams			No. of Decks with flat top														
Deck as per Rule			Moulded			Do.			do.			Upper Deck Beams			Shelter Dk.														
410 0			57 0			30.4			33 ins. 3			38 7 1/2			2														
Dimensions of Ship per Register,															Round up of Uppermost														
Length 410.0			breadth 57.2			depth 30.4			Moulded depth, ft. 33 ins. 3			Shelter Dk.			Dk. Beam, Actual 12 ins.														
FRAMING.															PILLARS.														
FRAME, Angles, or E or L Bars, amidships															PILLARS, in 'tween Deck, size and spacing														
Do. in peaks															" " Hold														
Do. in way of Double Bottoms at Solid Floors															" Quarter, 'tween Dks.,														
" " at intermdt. Bkts.															" " in Hold														
Spacing of Frames from centre to centre amidships															KEELSONS AND STRINGERS.														
" length to collision bulkhead															CENTRE LINE KEELSON, Vertical Plate above														
" of Frames from centre to centre in peaks															floors, Through Plate, or Intercostal Plate														
REVERSED FRAME, Angles															" Rider Plate														
Do. in way of Double bottoms at Solid Floors															" Flat Keel Plate Angles														
" " at intermdt. Bkts.															" Horizontal Plates on Floors														
FRAMING, depth of girder															" Angles or Bulb Angles														
FLOORS, depth and thickness of Floor Plate															SIDE KEELSONS, Number														
" at mid-line for 1/2 length amidships															" Angles or Bulb Angles														
" in way of Engine and Boiler spaces															" Plate above floors, for														
" thickness at the ends of vessel															" Intercostal Plate, for														
" depth at 1/2 the half-bdth. as per Rule															" Attached to outside plating with Angle														
" height extended at the Bilges															BILGE KEELSON, Angles														
FLOORS & BRACKETS, in Cell Dble Bottoms															" Intercostal Plate, for														
" state if flanged (top & bottom)															" Attached to outside plating with Angle														
" spacing															SIDE STRINGERS, Number														
CENTRE GIRDER, in Dbl. bottom, dpth. & thickness															" Angle														
" Angles, Top															" Intercostal Plate, for														
" Bottom															" Attached to outside plating with Angle														
" to Floors															SHADE														
SIDE GIRDERS, number and thickness															Shelter Deck Stringer Plates,														
" state if flanged (top & bottom)															breadth and thickness														
" Angles															" Angle on ditto														
MARGIN PLATE, depth (exclusive of flange)															" Tie Plates, fore and aft, outside Hatchways														
" and thickness															" Deck, * Iron or Steel, for														
" Angles to outside plating															" Wood Deck. Material & thickness														
" to floors															" Deck Stringer Plate, breadth and														
Height of Brackets above at bilge															thickness														
INNER BOTTOM PLATING, breadth and															" Angles on ditto, No.														
thickness of Middle Line Strake															" Tie Plates, outside Hatchways														
" thickness in Engine and Boiler space															" Deck, * Iron or Steel, for														
" SHADE Remainder in Holds															" Wood Deck. Material & thickness														
BEAMS, Angle, or Shtr Dk. Single Angle,															Second Deck Stringer Plates, br'dth & thck'n's														
Bulb Angle, Plate, Tee Bulb or Channel															" Angles on ditto, No.														
" Angles on upper edge															" Tie Plates, outside Hatchways														
" Spacing															" Deck, * Material and thickness														
BEAMS, Upper Deck, Single Angle, Bulb Angle,															Third, Fourth & Fifth Deck Stringer Plate,														
Plate, Tee Bulb or Channel															breadth and thickness														
" Angles on upper edge															" Angles on ditto, No.														
" Spacing															" Tie Plates, outside Hatchways														
BEAMS, Second, Third & Fourth Deck, Single															" Deck, * Material and thickness														
Angle, Bulb Angle, Plate, Tee Bulb or Channel															Third, Fourth & Fifth Deck Stringer Plate,														
" Angles on upper edge															breadth and thickness														
" Spacing															" Angles on ditto, No.														
BEAMS, Second Deck, Angle, Bulb Angle, Plate,															" Tie Plates, outside Hatchways														
Tee Bulb or Channel															" Deck, * Material and thickness														
" Angles on upper edge															Third, Fourth & Fifth Deck Stringer Plate,														
" Spacing															breadth and thickness														
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate,															" Angles on ditto, No.														
Plate, Tee Bulb or Channel															" Tie Plates, outside Hatchways														
" Angles on upper edge															" Deck, * Material and thickness														
" Spacing															Third, Fourth & Fifth Deck Stringer Plate,														
BEAMS, Forecastle Deck, Angle, Bulb Angle,															breadth and thickness														
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BEAMS, Forecastle Deck, Angle, Bulb Angle,															" Angles on ditto, No.														
Plate, Tee Bulb or Channel															" Tie Plates, outside Hatchways														
" Angles on upper edge															" Deck, * Material and thickness														
" Spacing															Third, Fourth & Fifth Deck Stringer Plate,														
BEAMS, Forecastle Deck, Angle, Bulb Angle,															breadth and thickness														
Plate, Tee Bulb or Channel															" Angles on ditto, No.														
" Angles on upper edge															" Tie Plates, outside Hatchways														
" Spacing															" Deck, * Material and thickness														
BEAMS, Forecastle Deck, Angle, Bulb Angle,															Third, Fourth & Fifth Deck Stringer Plate,														
Plate, Tee Bulb or Channel															breadth and thickness														
" Angles on upper edge															" Angles on ditto, No.														
" Spacing															" Tie Plates, outside Hatchways														
BEAMS, Forecastle Deck, Angle, Bulb Angle,															" Deck, * Material and thickness														
Plate, Tee Bulb or Channel															Third, Fourth & Fifth Deck Stringer Plate,														
" Angles on upper edge															breadth and thickness														
" Spacing															" Angles on ditto, No.														

WEB FRAMES. Inches in Ship. Inches in Ship. Inches per Rule. Inches per Rule. OR AS APPROVED. FORGINGS or CASTINGS. Inches in Ship. Inches per Rule. OR AS APPROVED. WEB-FRAMES, In Fore Body, No. and spacing 9 2 6 spaces 9 2 6 spaces brdth. & thickness 19 1/40 19 1/40 No. of Side Stringers 1 One 19 x 38 One 19 x 38 WEB-FRAMES, In E. & B. Space, No. & spacing 4 2 5 spaces 4 2 5 spaces brdth. & thickness 19 1/40 19 1/40 WEB-FRAMES, In After Body, No. and spacing 3 2 5 spaces 3 2 5 spaces brdth. & thickness 19 1/40 19 1/40 No. of Side Stringers 1 One 19 x 38 One 19 x 38 Size of Face Angles to Web-Frames 7 x 3/2 .68 7 x 3/2 .68 BRACKET PLATES to Stringers between Web Frames, depth and thickness 19 .38 19 .38

BULKHEADS. Number. Thickness. STIFFENERS. Single or Double Frames. Height up. Vessel. Per Rule. Inches. Size. Spacing. Size. Spacing. W.T. BULKHEADS AFT PEAK 34 34 7 3/4 x 46 24 Single Upper 34 34 5 3/4 x 40 30 34 34 7 3/4 x 44 34 34 34 34 8 3/4 x 46 34 34 40 2 SEMI-BOX BEAMS 34 34 COLLISION COLLISION COLLISION TOTAL 7 7 Are the outside Plates doubled two spaces of Frames in length? Yes Are the Sluice Valves and Watertight Doors in efficient working order? Yes

PLATING. STRAKES. AS IN SHIP. PER RULE OR AS APPROVED. EDGES. BUTTS. Ordinary or Joggled? Rivets. Double or Treble and for what Length. Rivets. STRAPS. IF LAPPED. Breadth. Thickness. Thickness. Thickness. Breadth. Thickness. Single or Double. Breadth of Lap. Diam. Spacing or to cr. Diam. Spacing or to cr. Diam. Spacing or to cr. Breadth. Thickness. Breadth. For what Length. FLAT PLATE KEEL 47 1.02 1.72 1.72 47 1.02 Dble 6 1 3/8 3/8 Quad 1 3/8 1 3/8 16 Full GARBOARD OR A STRAKE 62 62 58 50 62 62 5 1/2 7/8 3/8 7/8 3/8 12 B 62 50 50 62 62 5 1/2 7/8 3/8 7/8 3/8 12 C 62 56 56 62 62 5 1/2 7/8 3/8 7/8 3/8 12 D 62 66 62 48 66 62 5 1/2 7/8 3/8 7/8 3/8 12 E 66 66 66 66 66 62 5 1/2 7/8 3/8 7/8 3/8 12 F 66 50 66 66 66 62 5 1/2 7/8 3/8 7/8 3/8 12 G 66 68 66 66 68 62 5 1/2 7/8 3/8 7/8 3/8 12 H 66 66 66 66 66 62 5 1/2 7/8 3/8 7/8 3/8 12 J 66 68 66 66 68 62 5 1/2 7/8 3/8 7/8 3/8 12 K 66 66 66 66 66 62 5 1/2 7/8 3/8 7/8 3/8 12 L 66 66 66 66 66 62 5 1/2 7/8 3/8 7/8 3/8 12 M 66 66 66 66 66 62 5 1/2 7/8 3/8 7/8 3/8 12 N 70 68 70 48 46 47 66 66 66 66 66 62 5 1/2 7/8 3/8 7/8 3/8 12 O 66 66 66 66 66 62 5 1/2 7/8 3/8 7/8 3/8 12 P 66 66 66 66 66 62 5 1/2 7/8 3/8 7/8 3/8 12 Q 66 66 66 66 66 62 5 1/2 7/8 3/8 7/8 3/8 12 R 66 66 66 66 66 62 5 1/2 7/8 3/8 7/8 3/8 12 S 66 66 66 66 66 62 5 1/2 7/8 3/8 7/8 3/8 12 T 66 66 66 66 66 62 5 1/2 7/8 3/8 7/8 3/8 12 U 66 66 66 66 66 62 5 1/2 7/8 3/8 7/8 3/8 12 V 66 66 66 66 66 62 5 1/2 7/8 3/8 7/8 3/8 12 W 66 66 66 66 66 62 5 1/2 7/8 3/8 7/8 3/8 12 THICKNESS OF STRAKE CLEAR OF LONG BRIDGE DO. OF STRAKE BELOW DBLG. OF FLAT PLATE KEEL Sheerstrakes Length and thickness POOP SIDES SHORT BRIDGE SIDES FORECASTLE SIDES

SHADE Butts Treble riveted for full length amidship Butts of Side Stringers Treble riveted. Tie Plates Treble riveted. Inner Bottom Plating, riveting of Edges Dble Single Butts Dble to Single Centre Girder Butts Treble riveted Keelson Butts riveted Frames, riveted through Plates with 7/8 in. Rivets, about 5 1/2 apart. Rivets, state whether Iron or Steel Iron FRAMES extend in one length from centre line to Margin thence to Shade Oh State if ordinary or joggled Joggled REVERSED FRAMES on floors and frames extend from centre line to Margin (joggled) Reverse frames to upper Oh in boiler space State if ordinary or joggled ordinary

MASTS, SPARS, &c. Material. Length. DIAMETER AND THICKNESS. No. of Plates in round. ANGLES. RIVETING. Lower Masts Fore Steel 65.9 27 x 62 25 x 50 23 x 36 Two Single Treble Main Steel 74.6 27 x 62 25 x 50 23 x 36 Two Single Treble Mizzen Steel 74.6 27 x 62 25 x 50 23 x 36 Two Single Treble Topsails, Yards and Remainder of Spars Steel Rigging, Material and Size, Shrouds 3/2 Galv'd steel wire Stays 4 1/2 Galv'd steel wire Sails. One Suit of fore & aft Sails, and the following spare sails

Certificates for cast steel heads produced.

EQUIPMENT No. 40944 LETTER <i>B. +</i> ANCHORS.														
Number of Certificate.	Anchors	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE				WEIGHT REQ. BY TABLE 31.		
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.
16230	1st Bower	73	1	14	Stockless			55	10	0	0	72	2	0
16306	2nd "	72	2	0	"			55	0	0	0	72	2	0
16231	3rd "	62	3	14	"			50	0	0	0	62	0	0
	Collective weight	208	3	0								207	0	0
39316	Stream	20	2	7	5	2	21	21	3	3	0	20	2	0
39290	Kedge	9	1	14	2	1	14	11	9	0	7	9	0	0

CHAIN CABLES.														
Number of Certificate.	Length and Size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE			Fathoms and Size Per Table 31.		Description.	Makers of Cables.	Where and when tested, and Superintendent.		Material.
	Length.	Diam.	Statur.	Break.	Supplied.	Per Rule.		Length.	Diam.					
40185	300	2 3/8	10 1/2	14 2/3	850.3	1084.1	1.0	300	2 3/8	Stud	Carl of Dudley Tipton	3/6/12	Berrin	TOWLINE
	120	5		59				120	5					HAWERS & WARPS

Boats 9 Lifeboats 1 Motor & 2 others Steering Gear, Steam efficient
Pumps Number 2 Doubletons Diameter of Barrel 6" State whether they are in efficient working order *Yes*
Windlass is (Napier Bros): efficient *Capstan (Napier Bros) efficient Yes*
Engine Room Skylights How constructed: *Steel plates & angles* What arrangements for deadlights in bad weather: *Shutters & bulls eyes*
Coal Bunker Openings How constructed: *Shutters & bulls eyes* How are lids secured: *Clasps & Tarpaulins* Height above deck? *✓*
Number of Scuppers, and numbers and dimensions of **Freeing Ports** &c. *8 scuppers each side. Open rails*
Ceiling in Holds, thickness and material: *2 1/2 Oregon Brice*
Cargo Hatchways How formed: *Steel plates & angles* **Cargo Battens**, thickness and material: *2" x 4"*
State size No. 1 Hatch (Forward) *18' 0" x 14' 0"* **No. 2 Hatch** *27' 0" x 14' 0"* **No. 3 Hatch** *6' 0" x 14' 0"* **No. 4 Hatch** *15' 0" x 14' 0"*
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch: *No. 1 & 5 three webs, No. 2 & 4 two webs*
Bulwarks, height above deck and description: *Open rails* **No. of Breasthooks** *8* **No. of Crutches** *Deep floors*
The foregoing is a correct description. **Main Rail and Stays**, material and size: *✓*
Builder's Signature (here only) *Alex. Stephen & Sons Ltd.* **Surveyor's Signature** *Henry A. Hibbs*
Secy to Lloyd's Register of British and Foreign Shipping.

Correspondence. State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case) *Secy's letters M 10/9/11, 25/9/11, 27/10/11, E 5/12/11, M 26/1/12, 3/4/12.*

Workmanship. Are the butts 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? *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 faying 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? *Yes*
Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)? *Yes* State results of tests *Good*
Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? *Yes* State results of tests *Good*
General Remarks (State quality of workmanship, &c.) *Workmanship good.*

This vessel has been built in accordance with the approved plans the Secy's letters of above dates & otherwise in conformity with the rules for the class contemplated.

7 Forging reports & 7 approved plans enclosed
Midship Section & Profile already forwarded.

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

The amount of Entry Fee £ *5* : - : - Fees applied for, *6-3-1913*
Special Survey Fee £ *203* : 4 : 6 Received by me, *7-3-1913*
Travelling Expenses, if any £ : : :
State whether the Vessel has been built under Special Survey *Yes*
I am of opinion this Vessel should be Classed *100 AK "Shelter Deck"*
With, or without Freeboard, as condition of Class *with*
Surveyor's Signature *Henry A. Hibbs*
Secy to Lloyd's Register of British and Foreign Shipping.

Committee's Minute *GLASGOW 11 MAR. 1913*
Character assigned *+ 100 AK*
Shelter DK with fbd. 510' 3 1/2"
3.13.
Lloyd's Assoc
+ L.M.C. 3.13.
FD.

GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle ☒ ft.

(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated
Complete Shide Oh on top of Shelter Oh.

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 Register Book) 2 Dhs (Upper Stt Hs, Second part steel) Shelter Oh Stt Hs a Shide Oh

Official No. ☒ ; Signal Letters

State if Machinery is fitted aft No

How are the surfaces preserved from oxidation? Inside Paint & Cement

Outside Paint

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

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	88	165	Fore peak tank,		
Double bottom, under Engines and Boilers,	52	218	After peak tank,		
Double bottom, if under Engines only,	45	189	Deep tank, aft,		
Double bottom, if under Boilers only,	140	377	Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
Total capacity of double bottom		949	(If necessary, furnish further information by sketch.)		

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

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

Order for Special Survey No. 4657

Date 10-10-11.

No. 452 in builder's yard.

DATES OF SURVEYS held while building

1911 Oct. 18-22-25-30 Nov. 2-7-10-15-20-22-27-30 Dec. 5-8-12-15-20-28
1912 Jan. 9-15-17-24-31 Feb. 5-8-12-15-19-28 March 6-11-14-20-25-27 April 1-2-4-9-15-22-25
May 1-6-9-15-20-23-28-31 June 5-12-17-20-24 July 1-4-10-25-29 Aug. 15-6-9-12-14-15-21-28
Sept. 2-4-6-16-19-23-26-27 Oct. 2-7-10-17-21-28 Nov. 1-4-5-7-20 Dec. 5-16
1913 Jan. 9-14-21-29 Feb. 4-6-11-17-27-28 March 5-7-10

Total No. of Visits 103

Surveyor's Signature

Henry A. Gibbs

Lloyd's Register Foundation

Rpt. 4

Date of

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Master

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Boilers

Register

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