

Awning or Shelter Deck, or Pt. Awning Deck.

STEEL STEAMER.

No. 27940

Port of Sunderland Date of completion of Report -2 OCT 1920 Received at London Office MON OCT 4 1920
Survey held at Sunderland Date, First Survey 7 July 19 Last Survey September 1920
On the (State if Single, Twin, or Triple Screw) S **DIADEM** Rig Schooner
Master T. EVANS.

TONNAGE under
Tonnage Deck... 4185.88

Do. between Tonnage Dk. and
3rd, 4th, or Awning Dk. 101.80

Total under Upper Dk. 4287.68

Do. of Poop 17.10

Do. of R. of Dk. SIDE HOUSES 25.49

Do. of Bridge House 183.33

Do. of Forecastle 9.71

Do. of Houses on Deck 4.62

Do. of excess of Hatchways 4528.13

Do. above Crown of Engine Room 212.40

Gross Tonnage 4315.73

Less Crew Space 1449.00

Less above Crown of Engine Room 135.73

TONNAGE FOR FEES... 2731.00

Less Engine Room 135.73

Less Navigation Spaces 2731.00

Register Tonnage 2731.00

as cut on Beam...

CLASS 100 A-1. Shelter deck with flat. FEET. 53.7

Breadth (greatest moulded) 53.7

Depth, at middle of length from top of keel to top of beams at side of uppermost Continuous Deck 29.0

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Year of Appointment 1920

Built at Sunderland.

When built 1920 Launched July 14th 1920

By whom built The Sunderland Shipbuilding Co. Ltd.

Owners Hall Bros. S.S. Co. Ltd.

Managers (Where necessary to be entered in Reg. Book.)

Residence newcastle.

Port belonging to newcastle.

If Surveyed while Building, Afloat, or in Dry Dock Yrs

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FRAMING.

	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.
or L Bars, amidships	11	3 1/2	70	11	3 1/2	70	
" " " "	7	3 1/2	42	7	3 1/2	42	
Double Bottoms at Solid Floors	3 1/2	3 1/2	40	3 1/2	3 1/2	40	
" " " "							
as from centre to centre amidships	25 1/2			25 1/2			
o collision bulkhead " " " "							
s from centre to centre in peaks	24			24			
NAME, Angles							
Double bottoms at Solid Floors	3 1/2	3 1/2	40	3 1/2	3 1/2	40	
" " " "							
h of girder " " " "	11			11			
and thickness of Floor Plate							
ine for 1/2 length amidships							
Engine and Boiler spaces							
at the ends of vessel							
1/2 the half-bath, as per Rule							
extended at the Bilges							
Double Bottoms	40	6	36	40	6	36	
f flanged (top and bottom)							
g of Solid							
ER, in Dbl. bottom, dpth. & thickness	42	*	50	42	*	50	
" Angle, Top	4 1/2	4 1/2	60	4 1/2	4 1/2	60	
" " Bottom	4 1/2	4 1/2	60	4 1/2	4 1/2	60	
" " to Floors							
ts at intermdt. frmg., wdth & thkns							
S, number and thickness	38			38			
state if flanged (top & bottom)							
E, depth (exclusive of flange)	35	*	46	35	*	46	
and thickness	3 1/2	3 1/2	46	3 1/2	3 1/2	46	
to outside plating	3 1/2	3 1/2	40	3 1/2	3 1/2	40	
to floors	3 1/2	3 1/2	40	3 1/2	3 1/2	40	
ts at intermdt. frmg., wdth & thkns							
of Brackets above at bilge	24			24			
ON PLATING, breadth and	60	*	48	60	*	48	
ss of Middle Line Strake	48		66	48		56	
ickness in Engine and Boiler space	40	6	34	40	6	34	
Remainder in Holds	9	3 1/2	52	9	3 1/2	52	
or Shltr Dk, Single Angle,							
ngle, Plate, Tee Bulb or Channel	9 1/2	3 1/2	54	9 1/2	3 1/2	54	
Deck, Single Angle, Bulb Angle,							
ee Bulb or Channel	9 1/2	3 1/2	54	9 1/2	3 1/2	54	
Third & Fourth Deck, Single							
Angle, Plate, Tee Bulb or Channel							
upper edge							
Deck, Angle, Bulb Angle, Plate,							
ee Bulb or Channel							
on upper edge							

BEAMS, Bridge Deck, Angle, Bulb Angle, Plate,

Tee Bulb or Channel

Angles on upper edge

WEB FRAMES.				FORGINGS or CASTINGS.			
Inches in Ship.				Inches in Ship.			
WEB-FRAMES, In Fore Body, No. and spacing				KEEL, Bar, depth and thickness			
No. of Side Stringers				FLAT PLATE KEEL			
WEB-FRAMES, In E. & B. Space, No. and spacing				STEM, moulding and thickness			
brdth. & thickness				10 x 2 1/2 10 x 2 1/2			
WEB-FRAMES, In After Body, No. and spacing				STERN-POST for Rudder do. do.			
brdth. & thickness				9 x 7 1/2 9 x 7 1/2			
No. of Side Stringers				RUDDER, how constructed			
Size of Face Angles to Web-Frames				FORGED ARMS SHRUNK SINGLE PLATE			
BRACKET PLATES to Stringers between Web Frames, depth and thickness				Can the Rudder be unshipped afloat?			
BULKHEADS.				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			
STIFFENERS.				Plates, Plating, &c.?			
W.T. BULKHEADS				Plates, Plating, &c.?			
COLLISION PARTITION				Plates, Plating, &c.?			
LONGITUDINAL				Plates, Plating, &c.?			
Are the outside Plates doubled two spaces of Frames in length? Brackets in lieu of the Stairs and Watertight Doors in efficient working order?				Has the Steel been tested as required by the Rules?			
PLATING.				RIVETING.			
AS IN SHIP.				PER RULE OR AS APPROVED.			
STRAKES.				EDGES.			
AMIDSHIP.				ORDINARY or JOGGLED?			
FORWARD.				DOUBLE or TREBLE.			
AFT.				RIVETS.			
BREADTH.				BUTTS.			
THICKNESS.				IF LAPPED.			
FLAT PLATE KEEL				QUAD TO TREB.			
GARBOARD OF A STRAKE				QUAD TO TREB.			
B				QUAD TO TREB.			
C				QUAD TO TREB.			
D				QUAD TO TREB.			
E				QUAD TO TREB.			
F				QUAD TO TREB.			
G				QUAD TO TREB.			
H				QUAD TO TREB.			
J				QUAD TO TREB.			
UPPER SHEERSTRAKE				QUAD TO TREB.			
SHEERSTRAKE				QUAD TO TREB.			
M				QUAD TO TREB.			
N				QUAD TO TREB.			
O				QUAD TO TREB.			
P				QUAD TO TREB.			
Q				QUAD TO TREB.			
R				QUAD TO TREB.			
S				QUAD TO TREB.			
T				QUAD TO TREB.			
U				QUAD TO TREB.			
V				QUAD TO TREB.			
W				QUAD TO TREB.			
THICKNESS OF SHEERSTRAKE				QUAD TO TREB.			
CLEAR OF LONG BRIDGE				QUAD TO TREB.			
DO. OF STRAKE BELOW				QUAD TO TREB.			
DECK OF FLAT PLATE KEEL				QUAD TO TREB.			
SHEERSTRAKES				QUAD TO TREB.			
Length and thickness				QUAD TO TREB.			
POOP SIDES				QUAD TO TREB.			
SHORT BRIDGE SIDES				QUAD TO TREB.			
FORECASTLE SIDES				QUAD TO TREB.			
Butts, 3R riveted for all fore & aft length amidship.				Butts of Side Stringers			
Shelter Deck				Tie Plates			
Stringer Plate				Inner Bottom Plating, riveting of Edges			
Upper Deck				Centre Girder Butts			
Stringer Plate				Frames, riveted through Plates with			
Butts, 2R riveted for all fore & aft length amidship.				Rivets, state whether Iron or Steel			
FRAMES extend in one length from centre to tank side thence to upper & shelter decks all round				REVERSED FRAMES on floors and frames extend from tank side to centre			
Intermediate frames in Shelter tween decks 3 1/2 x 3 1/2 x 40 Scampered to main				frames at forward and after ends as approved.			
MASTS, SPARS, &c.				RIGGING.			
LOWER MASTS				RIGGING.			
Bowsprit				RIGGING.			
Topmasts, Yards and Remainder of Spars				RIGGING.			
Rigging, Material and Size, Shrouds				RIGGING.			
Sails.				RIGGING.			

EQUIPMENT No. 34145 LETTER Y ANCHORS.									
Number of Certificate.									
Anchors.									
Weight, Ex. Stock.									
Test, per Certificate.									
Weight Req. by Table 31.									
Description of Anchor.									
Makers.									
Where and when tested and Superintendent.									
Particulars of Drop Test of Cast Steel Anchors, viz.:-									
Weight, Surveyor's Initials, Number of Certificate, Date of Test.									
CHAIN CABLES.									
HAWERS AND WARPS.									
Boats Two Lifeboats 28', 19 1/2, 18'-0", 1 Dugly 18'									
Pumps, Number One Downton Pump and SR. pump 6 1/2 HP									
Windlass is by Emerson Walker Thompson Bros. Direct Steam									
Engine Room Skylights. How constructed? Steel plates and angles									
Coal Bunker Openings. How constructed? Steel plates and angles									
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c.									
Ceiling in Holds, thickness and material									
Cargo Hatchways. How formed?									
State size No. 1 Hatch (Forward) 24' 7 1/2" x 14' 11"									
Number of Web Plates, Shifting Beams and Fore and Afters									
No. of Breasthooks Six and decks No. of Crutches deep floors									
Bulwarks, height above deck and description									
The foregoing is a correct description.									
Builder's Signature (here only)									
Surveyor's Signature									
Correspondence. State dates and initials of letters respecting this vessel									
Workmanship. Are the butts of plating planed or otherwise fitted?									
Is the riveted work properly closed?									
Are the liners between the frames and plates solid single pieces?									
Are the butts of Plating, Stringers, &c., properly shifted and trapped?									
Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)?									
Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)?									
General Remarks (State quality of workmanship, &c.)									
This vessel has been built in accordance with the approved plans, the Secretary's letters and generally in compliance with the Rules. The materials and workmanship are good.									
To complete the Survey:-									
Casings in way of machinery openings to be riveted & caulked.									
Tunnel plating to be completed, riveted & caulked & hose tested.									
Downton Pump to be tried under working conditions.									
General Equipment to be finally examined.									
The vessel is being completed on the 15th and the Middlesex Surveyors have been advised.									
A midship section and Profile as built, 10 approved plans & 3 forging reports are forwarded herewith.									
The Surveyor should state the Number of Report and Name of any Sister Vessel.									
Plans to be forwarded with P.E. Report showing vessel as built.									
The amount of Entry Fee									
Special Survey Fee									
Travelling Expenses, if any									
State whether the Vessel has been built under Special Survey									
I am of opinion this Vessel should be Classed									
With, or without Freeboard, as condition of Class									
Committee's Minute									
Character assigned									
1000A1									
Cheese DK with fhd.									
Lloyds A & B.P.									
Lloyd's Register of Shipping									

GENERAL REMARKS—(continued).

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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.

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 should appear in the Register Book). **1 DK (Steel) and Skelter DK (Steel)**

Official No. **140922**; Signal Letters — State if Machinery is fitted aft **No**
How are the surfaces preserved from oxidation? Inside **Cement and paint** Outside **Paint**

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

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	125.34	411	Fore peak tank,	20	81
Double bottom, under Engines and Boilers,	44.62	195	After peak tank,	22	114
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	165.74	581	Other tanks, if fitted,		
Total capacity of double bottom	335.73	1187	(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. **5719**
Date **24.5.19**
No. **317** in builder's yard.
DATES OF SURVEYS held while building
1919. Jul 9. 23. 29. 31 Aug. 8. 11. 21. 27. Sep. 2. 10. 16. 22. 30 Oct. 7. 22. 30 Nov. 6. 25. Dec. 2. 7. 23. Jan. 6. 9. 16. 20. 27. Feb. 12. 26. Mar. 14. 21. Apr. 13. 20. May 3. 11. 20. 27. Jun. 1. 4. 11. 18. 25. Jul. 14. 21. 29. Aug. 5. 12. 20. 27. (Sept. at Harb.)

Surveyor's Signature **A. Pickworth**

Total No. of Visits **55**