# ~~Awning or~~ Shelter Deck, ~~or Pt. Awning Deck.~~

CABLE
# STEEL STEAMER.

No. 4 04 14.

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

WED OCT 6 1920

Port of Glasgow — Date of completion of Report 28th Sept 20 — Received at London Office

Survey held at Glasgow — Date, First Survey 16th June 1919 — Last Survey 28th Sept 1920

On the (State if ~~Single~~, Twin, ~~or Triple~~ Screw) T. S. S. "LADY DENISON PENDER" — Rig Schooner

| | |
|---|---|
| TONNAGE under Tonnage Deck | 1814·19 |
| Do. between Tonnage Dk. and 3rd, 4th, or Awning Dk. | ✓ |
| Total under Upper Dk. | 1814·19 |
| Do. of Poop | ✓ |
| Do. of R. Qr. Dk. | ✓ |
| Do. of Bridge House | 83·59 |
| Do. of Forecastle | ✓ |
| Do. of Houses on Deck | 39·75 |
| Do. of excess of Hatchways | ✓ |
| Crown of Room | 46·02 |
| nnage | 1983·55 |
| Space | 260·70 |
| Crown of Room | 46·02 |
| FOR FEES | 1676·83 |
| e Room | 826·07 |
| ion Spaces | 55·43 |
| Gen Spce. | 260·70 |
| Tonnage Beam | 841·35 |

CLASS 100 A1 Shelter Dk with Freeboard

| | Feet. |
|---|---|
| Breadth (greatest moulded) | 38. ✓ |
| Depth, at middle of length from top of keel to top of beams at side of uppermost Continuous Deck | 17.5 ✓ |
| Deduct height of 'tween deck when this does not exceed 8ft. | ✓ |
| Transverse Number | 55·5 |
| Length on deck from fore part of stem to after part of sternpost | 263· ✓ |
| Longitudinal Number | 14594· ✓ |
| Depth "d" at middle of length. See Secs. 2 & 13 | 4·08 ✓ |
| Proportions, Depths to Length, Uppermost Continuous Deck at side to top of keel | 10·5 ✓ |
| " " " Upper Deck at side to top of keel | 15·0 |

Master H. G. E. Wightman

Year of Appointment (1) As Master in service of owner of present vessel:—1911 (2) As Master of this vessel 1920

Built at Glasgow

When built 1920 Launched 29th May 1920

By whom built Fairfield S. & E. Co Ltd.

Owners Eastern Telegraph Co Ltd.

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

Residence London

Port belonging to London

Destined Voyage London — If Surveyed while Building, Afloat, ~~or~~ & in Dry Dock yes.

| | Ft. | Ins. | | Ft. | Ins. | | Ft. | Ins. | |
|---|---|---|---|---|---|---|---|---|---|
| TH on er Rule | 262 | 0 3 | BREADTH — Moulded | 38 | 0 | DEPTH, ACTUAL — Top of Floors to top ~~of Awn. or~~ Shelter Dk. Beams | 23 | 9½ | No. of Decks with flat laid 2 & Shelter |
| | | | | | | Do. do. Upper Deck Beams | 16 | 3½ | No. of Tiers of Beams ✓ |

s of Ship per Register, Length 269·2 breadth 38·1 depth. — 23·8 ~~Awn. or~~ Shelter Dk. ✓ Upper Deck. — Moulded depth, ft. 25 ins. 0 To ~~Awning or~~ Shelter Dk. ✓ — Moulded depth, ft. 17 ins. 6 To Upper Dk. — Round up of Uppermost Dk. Beam, Actual 9½ ins.

## FRAMING.

| | Inches in Ship. | Inches in Ship. | Inches in Ship. | Inches per Rule Or as | Inches per Rule Appro | Inches per Rule ved. |
|---|---|---|---|---|---|---|
| , Angles, ~~or [ or ⊥~~ Bars, amidships | 6 | 3 | ·36 | 6 | 3 | ·36 |
| peaks | 6 | 3 | ·36 | 6 | 3 | ·36 |
| way of Double Bottoms at Solid Floors | 3½ | 3 | ·32 | 3½ | 3 | ·32 |
| " " ~~at intermdt. Bkts.~~ | | ✓ | | | ✓ | |
| of Frames from centre to centre amidships | | 23" | | ✓ | 23" | |
| " " " from ⅝ length to collision bulkhead | | 23" | | ✓ | 23" | |
| f Frames from centre to centre in peaks | | 23" | | ✓ | 23" | |
| **SED FRAME,** Angles | | ✓ | | ✓ | ✓ | |
| way of Double bottoms at Solid Floors | 3½ | 3 | ·32 | 3½ | 3 | ·32 |
| " " ~~at intermdt. Bkts.~~ | | ✓ | | | ✓ | |
| **NG,** depth of girder | Single frame | | | Single frame | | |
| **S,** depth and thickness of Floor Plate at mid-line for ¾ length amidships | Ordinary floors in | | | | | |
| n way of ~~Engine and~~ Boiler spaces | 24" | Boiler × | Room ·50 | 24" | Only × | ·50 |
| hickness at the ends of vessel | | ✓ | | | ✓ | |
| lepth at ¾ the half-bdth. as per Rule | | ✓ | | | ✓ | |
| eight extended at the Bilges | | Straight | | Across | | |
| **S,** in **Cell Double Bottoms** | see midship section 35" | × | ·32 | 35 | × | ·32 |
| state if flanged (top and bottom) | | no | | ✓ | no | |
| spacing of Solid | | 23" | | ✓ | 23" | |
| **E GIRDER,** in Dbl.bottom, dpth.&thicknss | 35" | × | ·44 | 35" | × | ·44 |
| " Angles, Top Single | 5 | 5 | ·48 | 5 | 5 | ·48 |
| " " Bottom Single | 5 | 5 | ·60 | 5 | 5 | ·60 |
| " " to Floors Single | 3 | 3 | ·32 | 3 | 3 | ·32 |
| ~~Brackets at intermdt. frmg., wdth & thknss~~ | | ✓ | | | ✓ | |
| **IRDERS,** number and thickness | One | | ·30 | One | | ·30 |
| " state if flanged (top & bottom) | | no | | ✓ | no | |
| Angles Top and bottom | 3 | 3 | ·32 | 3 | 3 | ·32 |
| **PLATE,** depth (exclusive of flange) and thickness | 25" | × | ·36 | 25" | × | ·36 |
| Angles to outside plating | 3½ | 3½ | ·36 | 3½ | 3½ | ·36 |
| " to floors | 3 | 3 | ·32 | 3 | 3 | ·32 |
| ~~Brackets at intermdt. frmg., wdth & thknss~~ | | ✓ | | | ✓ | |
| Height of Brackets above at bilge | | 14" | | ✓ | 14" | |
| **BOTTOM PLATING,** breadth and thickness of **Middle Line Strake** | 35" | × | ·40 | 35" | × | ·40 |
| " thickness in Engine ~~and Boiler~~ space | | ·36 | | ✓ | ·36 | |
| " " Remainder in Holds | | ·32 | | ✓ | ·32 | |
| ~~Awng or~~ **Shltr Dk.** ~~Single Angle,~~ Bulb Angle, ~~Plate, Tee Bulb or Channel~~ | 7½ | 3 | ·42 | 7½ | 3 | ·42 |
| cing | | 46" | | ✓ | 46" | |
| **Upper Deck,** ~~Single Angle,~~ Bulb Angle, ~~Plate, Tee Bulb or Channel~~ | 7½ | 3 | ·42 | 7½ | 3 | ·42 |
| cing | | 46" | | ✓ | 46" | |
| **BEAMS, Second, ~~Third & Fourth~~ Deck,** ~~Single Angle,~~ Bulb Angle, ~~Plate, Tee Bulb or Channel~~ | 7½ | 3 | ·42 | 7½ | 3 | ·42 |
| " ~~Angles on upper edge~~ | | ✓ | | | ✓ | |
| " Spacing | | 46" | | | 46" | |
| ~~**BEAMS, Poop Deck,** Angle, Bulb Angle, Plate, Tee Bulb or Channel~~ | | ✓ | | | ✓ | |
| " ~~Angles on upper edge~~ | | ✓ | | | ✓ | |
| " ~~Spacing~~ | | ✓ | | | ✓ | |
| **BEAMS, Bridge Deck,** ~~Angle,~~ Bulb Angle, ~~Plate, Tee Bulb or Channel~~ | 7½ | 3 | ·50 | 7½ | 3 | ·50 |
| " ~~Angles on upper edge~~ | | ✓ | | | ✓ | |
| " Spacing | | 46" | | ✓ | 46" | |
| ~~**BEAMS, Forecastle Deck,** Angle, Bulb Angle, Plate, Tee Bulb or Channel~~ | | ✓ | | | ✓ | |
| " ~~Angles on upper edge~~ | | ✓ | | | ✓ | |
| " ~~Spacing~~ | | ✓ | | | ✓ | |

## PILLARS.

| | Inches. Size in Ship. | Inches. Spacing in Ship. | Inches. per Rule. Or as | Inches. per Rule. Approved. |
|---|---|---|---|---|
| **PILLARS, In 'tween Deck,** size and spacing | 2½ & 2¾ | 46" | 2½ & 2¾ | 46" |
| " " **Hold** " " | 3" & 3¼ | 46" | 3" & 3¼ | 46" |
| " ~~**Quarter, 'tween Dks.,**~~ " " | all Solid in two rows | | | |
| " ~~" **in Hold**~~ " " | ✓ | ✓ | ✓ | ✓ |

## KEELSONS AND STRINGERS.

| | Inches in Ship. | Inches in Ship. | Inches in Ship. | Inches per Rule Or as | Inches per Rule Approved | Inches per Rule ved. |
|---|---|---|---|---|---|---|
| **CENTRE LINE KEELSON,** ~~Vertical Plate above floors,~~ Through Plate, ~~or Intercostal Plate~~ (IN BOILER ROOM) | 30" | × | ·52 | 30" | × | ·52 |
| " Rider Plate | | ✓ | | | ✓ | |
| " Flat Keel Plate Angles Single | 5 | 5 | ·60 | 5 | 5 | ·60 |
| " Horizontal Plates on Floors each side of centre Keelson | 12" | × | ·48 | 12" | × | ·48 |
| " Angles ~~or Bulb Angles~~ on top of Horizontal plate in floors | 6 | 6 | ·50 | 6 | 6 | ·50 |
| **SIDE KEELSONS,** Number | | One | ✓ | | One | |
| " Angles ~~or Bulb Angles~~ ⊥ Single Horizontal flange to floors | 6 | 3 | ·50 | 6 | 3 | ·50 |
| " ~~Plate above floors, for~~ length | | ✓ | | | ✓ | |
| " Intercostal Plate, for full length of Boiler space | | ·46 | ✓ | | ·46 | |
| " Attached to outside plating with Angle | 3 | 3 | ·46 | 3 | 3 | ·46 |
| **BILGE KEELSON,** ~~Angles~~ 25" × ·46 margin plate of inner bottom carried | | | | | | |
| " ~~Intercostal~~ Plate, for length | | | | | | |
| " Attached to outside plating with Angle — This is flanged at top | | 3½ × 3½ × ·36 | | | | |
| **SIDE STRINGERS,** Number | | One | | | One | |
| " " Angle in way of machinery & Bunker spaces | 3 | 3 | ·34 | 3 | 3 | ·34 |
| " " Intercostal Plate, for full lng. | 14" | × | ·30 | 14" | × | ·30 |
| " Attached to outside plating with Angle SINGLE | 3 | 3 | ·38 | 3 | 3 | ·38 |
| ~~Awning or~~ **Shelter Deck Stringer Plates,** breadth and thickness in way of Clear of Bulkhead | 60" | | ·46 | 60" | | ·46 |
| " Angle on ditto Clear of Bulkhead | 60 | | ·44 | 60 | | ·44 |
| " " " in way of Bulkhead | 4 × 4 | × | ·48 | 4 × 4 | × | ·48 |
| " Tie Plates, fore and aft, outside Hatchways | 3 × 3 | × | ·38 | 3 × 3 | × | ·38 |
| " Deck.* ~~Iron or~~ Steel, for Half lng. | 14 | | ·46 | 14 | × | ·46 |
| " Wood Deck. Material & thickness Teak | ·34 — | | ·30 | ·34 — | | ·30 |
| **Upper Deck Stringer Plate,** breadth and thickness | 5" × 2½" | | | 5" × 2½" | | |
| " Angles on ditto, No. one Stringer and one shell connection | 60 | | ·40 | 60 | | ·36 |
| " ~~Tie Plates, outside Hatchways~~ | 3 × 3 | | ·38 | 3 × 3 | × | ·38 |
| " Deck.* ~~Iron or~~ Steel, for full lng. | ✓ | | | ✓ | | |
| " Wood Deck. Material & thickness P. Pine | ·30 | | | ·30 | | |
| **Second Deck Stringer Plates,** br'dth & thickn's | 5" × 3½ | | | 5" × 3½ | | |
| " Angles on ditto, No. one Stringer and one shell connection | 24" | | ·36 | 24" | | ·36 |
| " Tie Plates, outside Hatchways | 3 × 3 | × | ·38 | 3 × 3 | × | ·38 |
| " Deck.* Material and thickness P. Pine | 11" | | ·36 | 11" | | ·36 |
| ~~**Third, Fourth & Fifth Deck Stringer Plate,** breadth and thickness~~ | 5" × 2½ | | | 5" × 2½ | | |
| " ~~Angles on ditto, No.~~ | ✓ | | | ✓ | | |
| " ~~Tie Plates, outside Hatchways~~ | ✓ | | | ✓ | | |
| " ~~Deck. Material and thickness~~ | ✓ | | | ✓ | | |
| ~~**Poop Deck Stringer Plate,** breadth & thickness~~ | ✓ | | | ✓ | | |
| " ~~Angles on ditto~~ | ✓ | | | ✓ | | |
| " ~~Tie Plates~~ | ✓ | | | ✓ | | |
| " ~~Deck. Material and thickness~~ | ✓ | | | ✓ | | |
| **Bridge Deck Stringer Plate,** br'dth & thickness | 54" | | ·48 | 54" | | ·48 |
| " Angle on ditto | 4 × 4 | | ·48 | 4" × 4" | | ·48 |
| " Tie Plates | 14" | | ·48 | 14" | | ·48 |
| " Deck. Material and thickness Teak | 5" × 2¼" | | | 5" × 2¼" | | |
| ~~**Forecastle Deck Stringer Plate,** b'dth & thknss~~ | ✓ | | | ✓ | | |
| " ~~Angle on ditto~~ | ✓ | | | ✓ | | |
| " ~~Tie Plates~~ | ✓ | | | ✓ | | |
| " ~~Deck. Material and thickness~~ | ✓ | | | ✓ | | |

* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.

Form No. 1B. 1m,8,18. T.

## WEB FRAMES.

| | Inches in Ship. | Inches in Ship. | Inches per Rule. Or as Approved. | Inches per Rule. Or as Approved. |
|---|---|---|---|---|
| **WEB-FRAMES, In Fore Body,** No. and spacing (See Profile) | Two | 90 | 90 | 90 |
| ,, ,, brdth. & thickness | 14" | ·34 | 14" | ·34 |
| ~~No. of Side Stringers~~ ,, | ✓ | ✓ | ✓ | ✓ |
| **WEB-FRAMES, In E. & B. Space,** No. & spacing | Seven (2 Bunkers) | 92" in Bunkers 138" - E.B. Space | Seven | 92" in Bunkers 138" in E.B. Space |
| ,, ,, brdth. & thickness | 14" | ·34 | 14" | ·34 |
| **WEB-FRAMES, In After Body,** No. and spacing (in way of aft peak) | Four | | Four | |
| ,, ,, brdth. & thickness | 15" | ·32" | 15" | ·32 |
| ~~No. of Side Stringers~~ ,, ,, | ✓ | ✓ | ✓ | ✓ |
| ,, Size of Face Angle to **Web-Frames** | 5 × 3 | ·52 OA. | 5 × 3 | ·52 OA. |
| **BRACKET PLATES to Stringers between Web Frames,** depth and thickness | ✓ | ✓ | ✓ | ✓ |

## FORGINGS OR CASTINGS.

| | Inches in Ship. | Inches per Rule. Or as Approved. |
|---|---|---|
| **KEEL, Bar,** depth and thickness | Flat plate Keel | |
| **STEM,** moulding and thickness | Rolled bars | 7½ × 2⅝ ✓ 7½ × 2⅝ |
| **STERN-POST** for Rudder do. do. | Steel Casting | See approved plan |
| ,, ~~for Propeller~~ | ✓ | ✓ |
| **RUDDER—A×D"** Table 22. Speed 13 Knots | ·150 | 150 |
| ,, **Main-Piece,** diameter at head | 6¼ ✓ | 6¼ |
| ,, ,, ,, at heel | 4¾ ✓ | 4¾ |

**RUDDER,** how constructed Steel Casting See approved plan

,, ~~Thickness of Plates or Single Plate~~ ✓

*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 process.) The Steel Coy of Scotland, The Lanarkshire Steel Coy, David Colville & Sons Ld.

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

## BULKHEADS. STIFFENERS.

| | Number. Vessel. | Number. Per Rule. | Thickness. | Stiffeners Horizontal. Size. | Horizontal. Spacing | Vertical. Size. | Vertical. Spacing | Single or Double Frames. | Height up, state deck. |
|---|---|---|---|---|---|---|---|---|---|
| FRAME A (See Profile) | | | | | | | | | |
| **W.T. BULKHEADS** | 6 | 4 | ·32 - ·28 | ✓ | ✓ | 8½ × 3 × ⅜ | 24" | Single | Upper Dk |
| No. 7 | | | ·46 - ·38 | (W.T. FLAT & TUNNEL) | | OR 6 × 3 × ⅜ | 24" | ,, | ,, ,, |
| No. 35 | ✓ | | ·44 - ·34 | (TUNNEL FLAT) | | 8 × 6 × 3 × ·44 | 30 | ✓ | Shelter Dk |
| No. 59-64 | ✓ | | ·46 - ·34 | (ONE HORIZ) | | 8 × 3 × ·42 | 24" | ,, | ,, ,, |
| No. 82-84 | ✓ | | 7/16 - ·44 | 14 × 3 × ·34 Angle 3 × 3 × ·34 in face. | | Do | 24" | ✓ | ,, ,, |
| ,, **COLLISION** No. 121 | | | ·56 - ·32 | ✓ | ✓ | 8 × 8 × 3 × ·46 | 24" | ,, | Shelter Dk |
| **PARTITION** ,, | | | | (ONE HORIZ) | | | | | |
| **LONGITUDINAL** ,, FRAMES 67 TO 76 | | | ·46 - ·34 | 14 × 3 × ·34 Angle 3 × 3 × ·34 in face. | | 8 × 3 × ·42 | 23" | ✓ | Upper Dk |

Are the outside Plates doubled two spaces of Frames in length? Lines fitted and brackets in lieu of doubling plates.

Are the ~~Sluice Valves and~~ Watertight Doors in efficient working order? Yes.

## PLATING. RIVETING.

| STRAKES. | As in Ship. Amidship. Breadth. | Amidship. Thickness. | Forward. Thickness. | Aft. Thickness. | Per Rule or As Approved. Amidship. Breadth. | Amidship. Thickness. | Edges, Ordinary or Joggled? Ordinary. Single or Double. | Breadth of Lap. | Rivets. Diam. | Rivets. Spacing cr. to cr. | Butts. Double or Treble and for what Length. | Rivets. Diam. | Rivets. Spacing cr. to cr. | Straps. Breadth. | Straps. Thickness. | If Lapped. Breadth. | If Lapped. For what Length. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Inches. | Inches. | Inches. | Inches. | Inches. | Inches. | | Inches. | Inches. | Inches. | | Inches. | Inches. | Inches. | Inches. | Inches. | Feet. |
| FLAT PLATE KEEL (If Bar Keel, state Rivetting.) | 42 | ·44 | ·60 | ·60 | 42" | ·44 | Double | 6 | 1" | 3⅝ | Quad ½ L | 1" | 4" | ✓ | ✓ | 14" | |
| GARBOARD or A Strake | | ·50 | ·50 | ·50 | | ·50 | ,, | 4½ | ¾ | 3¼ | Treble full | ¾ | 2⅝ | ✓ | ✓ | 7½ | ,, |
| B ,, | | ·50 | ·50 | ·50 | | ·50 | ,, | ,, | ,, | ,, | ,, | ,, | ,, | ✓ | ✓ | ,, | ,, |
| C ,, | | ·50 | ·50 | ·50 | | ·50 | ,, | ,, | ,, | ,, | ,, | ,, | ,, | ✓ | ✓ | ,, | ,, |
| D ,, | | ·50 | ·40 | ·50 | | ·50 | ,, | ,, | ,, | ,, | Treble ½ L | ,, | ,, | ✓ | ✓ | ,, | ,, |
| E ,, | | ·48 | ·40 | ·48 | | ·48 | ,, | ,, | ,, | ,, | ,, | ,, | ,, | ✓ | ✓ | ,, | ,, |
| F ,, | | ·48 | ·40 | ·40 | | ·48 | ,, | ,, | ,, | ,, | ,, | ,, | ,, | ✓ | ✓ | ,, | ,, |
| G ,, | | ·48 | ·50 | ·40 | | ·48 | ,, | ,, | ,, | ,, | ,, | ,, | ,, | ✓ | ✓ | ,, | ,, |
| Sheerstrake Shelter Dk H ,, | 66" | ·50 | ·52 | ·42 | 66" | ·50 | ,, | ,, | ,, | ,, | Treble ⅔ L | ,, | ,, | ✓ | ✓ | ,, | ,, |
| J ,, | | ·50 | ✓ | ✓ | | ·50 | ,, | ,, | ,, | ,, | ,, full L | ,, | ,, | ✓ | ✓ | ,, | ,, |
| Sheerstrake Bridge Dk. K ,, | 44" | ·50 | ✓ | ✓ | 44" | ·50 | ,, | | | | ,, | ,, | ,, | ✓ | ✓ | ,, | ,, |
| L ,, | | | | | | | | | | | | | | | | | |
| M ,, | | | | | | | | | | | | | | | | | |
| N ,, | | | | | | | | | | | | | | | | | |
| O ,, | | | | | | | | | | | | | | | | | |
| P ,, | | | | | | | | | | | | | | | | | |
| Q ,, | | | | | | | | | | | | | | | | | |
| R ,, | | | | | | | | | | | | | | | | | |
| S ,, | | | | | | | | | | | | | | | | | |
| T ,, | | | | | | | | | | | | | | | | | |
| U ,, | | | | | | | | | | | | | | | | | |
| V ,, | | | | | | | | | | | | | | | | | |
| W ,, | | | | | | | | | | | | | | | | | |

Riveting of shaft butts increased where plates are over Rule width.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| THICKNESS OF SHEERSTRKE | 66 | ·54 ✓ | ·52 | ·42 | 66 | ·54 | Double | 5¼ ✓ | ⅞ | 3⅝ | Double ¾ L | ⅞ | 3⅛ | 16¾ | Double 28 ·42 ✓ | | ✓ |
| CLEAR OF LONG BRIDGE | | ·48 ✓ | ·50 | ·40 | | ·48 | Single | 2½ | ¾ | 3¾ | ,, ½ L | ¾ | 2⅝ | ,, | ✓ | 7½ | full L |
| DO. OF STRAKE BELOW | | | | ✓ | | ✓ | | | | | | | | | | | |
| ~~Dble. of Flat Plate Keel~~ | forms | 44 | | | | | | | | | | | | | | | |
| ,, Sheerstrakes (Length and thickness) | 23'-6" | × 24'-0" | ·48 | ·48 | | ·48 | | | | | | | | | | | |
| ~~Poop Sides~~ | | | | ✓ | | ✓ | | | | | | | | | | | |
| ~~Short Bridge Sides~~ | | | | ✓ | | ✓ | | | | | | | | | | | |
| ~~Forecastle Sides~~ | | | | ✓ | | ✓ | | | | | | | | | | | |

~~Awning or~~ Shelter Deck Stringer Plate: Butts, Full riveted for Half length amidship. ~~Straps, single, double or~~ overlapped for full length amidship.

Upper Deck Stringer Plate: Butts, Double riveted for full length amidship. ~~Straps, single or~~ overlapped for full length amidship.

2nd Dk Stringer Butts Double for full length amid.

**Butts of Side Stringers** entire total between web frs. riveted.

,, **Tie Plates** Double riveted.

**Inner Bottom Plating,** riveting of **Edges** Single **Butts** Double

**Centre Girder Butts,** Double riveted. **Keelson Butts,** ✓ riveted.

**Frames,** riveted through Plates with ¾ in. Rivets, about 5¼" apart.

**Rivets,** state whether Iron or Steel Iron.

**FRAMES** extend in one length from Keel to margin to from margin to Shelter and Bridge Dk alternately. State if ordinary or joggled joggled.

**REVERSED FRAMES** on floors and frames extend from Keel to Bilge. Double in way of E.B. Space.

Intermediate frames between Shelter & Bridge Deck. State if ordinary or joggled joggled. 3½ × 3 × ·30

## MASTS, SPARS, &c.

| | | Material. | Total Length. | Diameter and Thickness. At Partners. | Heel. | Hounds. | Head. | No. of Plates in round. | Angles. Number. | Angles. Size. | Riveting. Seams. | Riveting. Butts. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOWER MASTS | Fore | Steel | 86'-0" | 24" × 7/20 | 24" × 7/20 | 20¼ × 5/20 | 19¼ × 5/20 | Two | ✓ | ✓ | Single | Double |
| | Main | Steel | 78'-6" | 24" × 7/20 | 24" × 7/20 | 20¼ × 5/20 | 18¾ × 5/20 | Two | ✓ | ✓ | Single | Double |
| | ~~Mizen~~ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ~~Bowsprit~~ | | ✓ | | | | | | | | | | |

Topmasts, Yards ~~and Remainder of Spars~~ Fore 40'-0" main 48'-0" Pitch Pine Yards Pitch Pine

**Rigging,** Material and Size, **Shrouds** Galvd. Steel wire fore 3½" main 3½ **Stays** Galvd. Steel Wire fore 3½ main 3½

**Sails.** One Suit of Sails Sails, and the following spare sails ✓

Form No. 1B.

## EQUIPMENT No. 16671 LETTER Q. ANCHORS.

| Number of Certificate. | Anchors. | Weight, Ex. Stock Cwts. | qrs. | lbs. | Weight of Stock Cwts. | qrs. | lbs. | Test, per Certificate Tons. | cwts. | qrs. | lbs. | Weight Req. by Table 31. Cwts. | qrs. | lbs. | Description of Anchor. | Makers. | Where and when tested and Superintendent. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25366 | 1st Bower | 33 | 1 | 0 | Stockless | | | 32 | 11 | 1 | 0 | 33 | 0 | 0 | Byers Patent | W. L. Byers Ltd | Dunderlaw 21/11/20 Hoffman |
| 25367 | 2nd ,, | 35 | 1 | 14 | Do | | | 32 | 13 | 0 | 14 | 33 | 0 | 0 | Do. | Do | Do Do Do. |
| 25368 | 3rd ,, | 35 | 1 | 0 | Do | | | 32 | 11 | 1 | 0 | 28 | 0 | 0 | Do | Do | Do Do Do |
| | Collective weight | 105 | 3 | 14 | | | | | | | | 94 | 0 | 0 | | | |
| 33436 | ~~Kedge~~ Stream | 4 | 3 | 8 | 1 | 0 | 20 | 7 | 5 | 0 | 0 | 4 | 2 | 0 | Ordinary | 1st State | Bradley Heath 22/1/20 S. Platt |
| 33437 | ~~Kedge~~ Stream | 8 | 2 | 0 | 2 | 0 | 16 | 10 | 12 | 2 | 0 | 8 | 2 | 0 | Do | Do | Do Do Do |

If Patentees Name of Pattern. If Patented state Mechanical Tests.

Particulars of **Drop Test** of Cast Steel Anchors, viz.:—Weight, Surveyor's Initials, Number of Certificate, Date of Test.

| | Cwts. | Qrs. | Lbs. | | | |
|---|---|---|---|---|---|---|
| 1st Bower | 19 | 2 | 7 | D.D.W. | No. 3128 | 23rd March 1920. |
| 2nd ,, | 20 | 0 | 25 | P.L | No. 3566 | 19th March 1920. |
| 3rd ,, | 20 | 0 | 20 | P.L | No. 3567 | 26th March 1920. |

## CHAIN CABLES. HAWSERS AND WARPS.

| Number of Certificate. | Length and size supplied. Length. | Diam. | Test per Certificate. Statutory. | Breaking. | Weight of Chain Cable. Supplied. | Per Rule. | Length and Size per Table 31. Length. | Diam. | Description. | Makers of Cables. | Where and when tested, and Superintendent. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fathoms. | In. | Tons. | Tons. | Cwts. qrs. lbs. | Cwts. qrs. lbs. | Fathoms. | In. | | | |
| 71213 | 120 | 1 1/16 | 51¼ | 71¾ | 173 · 0 · 10 | | | | Studless Link | Lingley & Sons Ld. Cells. | 12/2/20 H. Green |
| 71214 | 120 | 1 1/16 | 51¼ | 71¾ | 172 · 3 · 8 | 346 · 2 · 22 | 240 | 1 1/16 | Do | Do | Do. |
| | 240 | Cir. | ✓ | ✓ | 345 · 3 · 18 | ✓ ✓ | ✓ | Cir. | | | |
| ~~Spare Stream Chain or~~ Steel Wire | 120 | ¼" S.W. | 33 Tons. | ✓ | | | 75 | ¼" S.W. | | | |

| Material | Length and Size supplied. Length. | Cir. | Breaking Test of Steel Wire Towline. Tons. | Length and Size per Table 31. Length. | Cir. |
|---|---|---|---|---|---|
| TOWLINE S.W. | 120 | 3½ | 26 | 9 | 3½ |
| HAWSERS & WARPS Hemp | 90 | 6" | | 90 | 6" |
| ,, ,, | 90 | 6" | | 90 | 6" |
| ,, ,, | 90 | 5" | | 90 | 5" |
| ,, ,, | 90 | 5" | | 90 | 5" |

**Boats** Six **Steering Gear, Steam** Caldwell Ltd **Steering Gear, Hand** Caldwell Ltd.

**Pumps,** Number Two Downton & hand pump ✓ Diameter of Barrel 5½ State whether they are in efficient working order yes.

**Windlass** and **Capstan** Combined, Steam by Napier Bros Ld **Capstan** (old Windlass)

**Engine Room Skylights.**—How constructed? Teak. What arrangements for deadlights in bad weather? Good covers

**Coal Bunker Openings.**—How constructed? Steelly with wooden bridge (Bunker side) How are lids secured? Bayonet joints Height above deck? flush

Number of **Scuppers,** and numbers and dimensions of **Freeing Ports, &c.** 7 each side. Freeing ports. none, (open rails)

**Ceiling in Holds,** thickness and material 2½" Pitch pine for hold only **Cargo Battens,** thickness and material 2" Wheat pine

~~Cargo~~ Other Hold **Hatchways.**—How formed? Steel plate and angles. **Hatches,** If strong and efficient? yes.

State size **No. 1 Hatch** (Forward) Tween decks 9'-7" × 8'-0" **No. 2 Hatch** Cabin. 4'-0" Diar **No. 3 Hatch** Main Cabin Beam 9'-3" × 9'-3" **No. 4 Hatch** Cabin 4'-0" diar. No. 5 Hatch 8'-0" diar.

Number of **Web Plates, Shifting Beams** and **Fore** and **Afters** to each Hatch One fore and aft in 1 and 3 hatchs

**No. of Breasthooks** 8 on **No. of Crutches** six

**Bulwarks,** height above deck and description Open rails Main Rail and Stays, material and size Open rails

*The foregoing is a correct description.* LIVERSIDE SHIPBUILDING AND ENGINEERING CO., LIMITED. INSIDE MANAGER. *Surveyor's Signature* Geo M Shaw

*Builder's Signature (here only)* *Surveyor to Lloyd's Register of Shipping.*

**Correspondence.**—State dates and initials of letters concerning this case (Mention should be made in any correspondence connected with the case) 1/9/19 m. 17/9/20 m. 6/6/19 m. 19/5/19 m. 1/9/20 m. 18/9/19 m. 17/9/20 m. 24/9/20 m. 29/9/20 m. 31/7/19 E. 23/12/19 m. 23/4/19 m. 28/6/19 m. 9/5/19 m. 17/7/19 m. 5/6/19 m. 5/11/19 E.

**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 Satisfactory

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

**General Remarks** (State quality of workmanship, &c.) Workmanship Good.

Shelter deck vessel without tonnage opening.

This vessel has been built in accordance with the approved plans, the Secretary's letters of the above dates and in general conformity to the Rules for the Class contemplated.

The vessel is fitted for carrying oil (for her own use) in 2 deep tanks also in part of the double bottom. These compartments have been tested in accordance with the Rules for carrying oil fuel notation for Register Book, Carrying Oil fuel F.P. above 150° in Deep tanks and double bottoms. No cement is fitted in the inner bottom compartments that is to be used for oil fuel.

Before the vessel was delivered to her owners she was placed in Dry Dock when the bottom plating were examined found in

*The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans to be forwarded with F.E. Report showing vessel as built.* P.T.O.

The amount of Entry Fee ..... £ 4 : 0 : 0

Special Survey Fee.... £ 66 : 18 : 6

~~Travelling Expenses, if any~~ £ 3 : 3 : 0

Fees applied for, 5-10-1920. Received by me, 20-11-1920.

State whether the Vessel has been built under Special Survey yes.

I am of opinion this Vessel should be Classed +100 A1. Shelter Deck With, ~~or without~~ Freeboard, as condition of Class with freeboard.

Certificate to be sent to Glasgow. Date of issue 23.11.20. with ~~freeboard~~ carrying oil fuel F.P above 150° F in D.B and Deep tanks

Geo M Shaw. *Surveyor to Lloyd's Register of Shipping.*

*Committee's Minute* GLASGOW. 1 DEC 1920

*Character assigned* +100 A1 Shelter Deck with free s.f. 4½" 9.20. Lloyds A1 C.P. +L.M.C. 9.20. J.D.

Carrying Oil Fuel F.P. above 150°F in D.B. and Deep Tanks.

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



0234 2/2

GENERAL REMARKS—(*continued*).

order – and recoated.
Vessel has three Cable tanks these have been tested with water and found satisfactory.

14 approved plans and 5 forging reports forwarded herewith.

**PARTICULARS FOR RECORD in the REGISTER BOOK.**—Length of Poop ✓ ft., R.Q.D. ✓ ft., Bridge 84' ft. on Shelter Dk 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 it should appear in the Register Book*) 2 DKS (Utt. W.S.) + Shelter deck (Utt. Teaks).

Official No. 145,035 ; Signal Letters ✓ . State if Machinery is fitted aft no.

How are the surfaces preserved from oxidation? Inside Paint and Cement Outside Paint.

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

| Where Fitted. | *Length. Feet. | Water Capacity in Salt Water Tons. | Where Fitted. | *Length. Feet. | Water Capacity. Tons. |
|---|---|---|---|---|---|
| Double bottom, aft, Salt water | 53·8" | 44 | Fore peak tank, Salt water | ✓ | 23 |
| ~~Double bottom, under Engines and Boilers,~~ | | ✓ | After peak tank, Salt water | ✓ | 88 |
| Double bottom, if under Engines only, Fresh water | 23·0 | 45 | ~~Deep tank, aft,~~ | ✓ | ✓ |
| ~~Double bottom, if under Boilers only,~~ | ✓ | ✓ | ~~Deep tank, forward,~~ | ✓ | ✓ |
| Double bottom, forward, Salt water in No 1 & 2 tanks Oil in No 3 Tank. | 118·10" | 182 | ~~Other tanks, if fitted,~~ | ✓ | ✓ |
| | Total capacity of double bottom | 271 | (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.

Total length of inner bottom 195'·6" Total Capacity in Salt water 271 tons.

Order for Special Survey No. 5256

Date 3·7·19.

No. 597 in builder's yard.

DATES of Surveys held while building: 1919 June 16·25 July 4·15. Aug 5. Sept. 11·16·25. Oct. 1·10·24·29. Nov. 19. Dec. 1·29 1920 Jan 16·24·30. Feb. 2·13·19·23·25·26. Mar. 5·12·19·22·23·25·26. Apr. 1·6·9·14·15·16·19·22·23·24·30. May 3·5·18·21·10·14·26·29. June 8·10·11·16·19·22·23·29·30. July 6·13·30. Aug. 4·13·16·24·31. Sept. 1·4·7·9·13·15·14·28.

Total No. of Visits 45.

*Surveyor's Signature* [illegible]