

PILLARS AND DECKS.

| | | INCHES IN SHIP. | Any Departure from Approved Plans to be Noted. | | | INCHES IN SHIP. | Any Departure from Approved Plans to be Noted. |
|--|---------------|-------------------------------------|--|--|------|--------------------|--|
| PILLARS, No. of Rows | ✓ | | | Stringer Plate, breadth and thickness in way of Bridge | ✓ | | |
| " in 'tween Decks, Size and Spacing | ✓ | | | Thickness of Plating abreast Deck openings in way of Wells | 40 ✓ | | |
| " " " " " " | ✓ | | | Thickness of Plating abreast Deck openings in way of Bridge | ✓ | | |
| " in Holds " " " " | ✓ | | | Thickness of Plating within line of openings... | 34 ✓ | | |
| " " " " " " | ✓ | | | If Sheathed, material and thickness | ✓ | | |
| Centre Line Bulkhead. | TWEEN DECKS ✓ | 6x3x3/8 L To 4x3x3/8 @ 4'-6" MAX. ✓ | | Third Deck. | | | |
| Stiffeners and Spacing | HOLDS ✓ | 10x3 1/2 x 38 L @ 4'-6" MAX. ✓ | | Stringer Plate, breadth and thickness | ✓ | | |
| | do FORD | 10x3 1/2 x 50 L ✓ | | If Plated, state thickness | ✓ | | |
| Plating, thickness of | TWEEN DECKS | 26 ✓ | | Fourth Deck. | | | |
| | HOLDS | 30 ✓ | | Stringer Plate, breadth and thickness | ✓ | | |
| STRINGERS AND DECKS. | | | | If Plated, state thickness | ✓ | | |
| Uppermost Continuous Deck. | | | | Poop Deck. | | | |
| Stringer Plate, breadth and thickness in Wells | 90 3/4 x 70 ✓ | | | Stringer Plate, breadth and thickness | ✓ | | |
| " " " " " in way of Bridge | ✓ | | | Plating, Sheathing, material and thickness ... | ✓ | | |
| " Angle in Wells | 6 x 6 x .68 ✓ | | | Bridge Deck. | | | |
| Thickness of Plating abreast Deck openings } in way of Wells | 70 8.65 ✓ | | | Stringer Plate, breadth and thickness | ✓ | | |
| Thickness of Plating abreast Deck openings } in way of Bridge | ✓ | | | Plating, Sheathing, material and thickness ... | ✓ | | |
| Thickness of Plating within line of openings... | 40 ✓ | | | Forecastle Deck. | | | |
| If Sheathed, material and thickness | ✓ | | | Stringer Plate, breadth and thickness | 36 ✓ | | |
| Second Deck. | | | | Plating, Sheathing, material and thickness... | 32 ✓ | UNDER W' LASS 50 ✓ | |
| Stringer Plate, breadth and thickness in Wells | 90 1/4 x 44 ✓ | | | | | | |

SHELL PLATING.

| SCANTLINGS. | | | | | RIVETING. | | | | | | | | |
|---|----------------------------------|------------|-------------------------------|------------------------|--|----------------------------|----------------------|---------|-----------------------|---------------------------|---------------------------------|-----------------------|------------------------|
| STRAKES. | AS IN VESSEL. | | | | ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED. | EDGES. | | | BUTTS. | | | | |
| | AMIDSHIPS. | | FORWARD. | AFT. | | State if jogged? <u>NO</u> | SINGLE OR DOUBLE. | RIVETS. | | No. of Rows of RIVETS. | RIVETS. | | STRAPPED OR LAPPED. |
| | Breadth. | Thickness. | Thickness. | Thickness. | | | | Diam. | Spacing cr. to cr. | | Diam. | Spacing cr. to cr. | |
| | Inches. | Inches. | Inches. | Inches. | | | Inches. | Inches. | | Inches. | Inches. | | |
| Flat Plate Keel..... | 55 ⁵ / ₈ ✓ | .80 ✓ | .70 ✓ | .70 ✓ | | DOUBLE ✓ | 7/8 ✓ | 3.6 ✓ | ✓ | | | WELDED ✓ | |
| „ Dblg. (if any) B | ✓ | | | | | | | | | | | | |
| Bottom Plating, No. of Strakes A.....C. } | | .68 ✓ | .56 ✓ | .54 ✓ | | | | | | | | | |
| | | .64 ✓ | .56 ✓ | .53 ✓ | | do ✓ | 7/8 ✓ | 3.6 ✓ | 4R TO 3R | 7/8 ✓ | 3 1/2 ✓ | LAPPED ✓ | |
| Bilge Plating, No. of Strakes .. D..E..... } | | .68 ✓ | E .50 ✓ | .52 ✓ | | do ✓ | 7/8 ✓ | 3.6 ✓ | 4R | 7/8 ✓ | 3 1/2 ✓ | SINGLE STRAPS ✓ | |
| | | | D .56 ✓ | .53 ✓ | | | | | | | | | |
| Side Plating, No. of Strakes ... F..G..... } | | .68 ✓ | F .49 ✓ | .46 ✓ | | do ✓ | 7/8 ✓ | 3.6 ✓ | 3R | 7/8 ✓ | 3 ✓ | LAPPED ✓ | |
| | | | | | | | | | | | | | |
| Upper Deck, Sheer- strake in Wells..... } | 92 ⁷ / ₈ ✓ | .73 ✓ | .46 ✓ | .46 ✓ | | do ✓ | 7/8 ✓ | 3.6 ✓ | 4R TO 3R | 1 ✓ | 4 ✓ | LAPPED ✓ | |
| | | | | | | | | | | | | | |
| Upper Deck, Sheer- strake in Bridge ... } | ✓ | | | | | | | | | | | | |
| Strake below Sheer- strake in Wells..... } | 94 ⁵ / ₈ ✓ | .68 ✓ | .46 ✓ | .46 ✓ | | do ✓ | 7/8 ✓ | 3.6 ✓ | 3R | 7/8 ✓ | 3 ✓ | LAPPED ✓ | |
| | | | | | | | | | | | | | |
| Strake below Sheer- strake in Bridge ... } | ✓ | A.B.&C | BOTTOM SHELL | FOR'D OF 1/2 L = .75 ✓ | | | | | | | | | |
| | | A.B.&C | “ | “ “ 3/5 L = .70 ✓ | | | | | | | | | |
| Poop Side Plating..... | ✓ | | SIDE SHELL AT PAINTING AREA = | .58 ✓ | | | | | | | | | |
| | | | | | | | | | | | | | |
| Bridge Side Plating..... | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Forecastle Side Plating | | | .40 ✓ | | | SINGLE ✓ | 3/4 ✓ | 3 ✓ | 1R ✓ | 3/4 ✓ | 2 ⁵ / ₈ ✓ | LAPPED ✓ | |

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel— *for record 2/13/14*



Extending to Upper Deck (Sec. 3 c) *6*

„ Deck next below *7*

As per Rule *7*

FORGINGS AND CASTINGS.

| | Casting or Forging. | Scantlings. | Maker's Name. | Any Departure from Approved Plans to be Noted. |
|----------------------------------|----------------------|--------------------------------------|---------------|--|
| KEEL, Bar | | ✓ | | |
| STEM | | 10 x 2 5/8 M.S. 8' 56" PLATE | | |
| STERN FRAME { | Propeller Post | M.S. FABRICATED AS PER | | |
| { | Rudder .. | APPROVED PLAN. DORMAN LONG & CO. LTD | | |
| Speed of Vessel | | 11 KNOTS | ✓ | |
| RUDDER—Type | | ORDINARY | ✓ | |
| " A x D..... | | 578 | ✓ | |
| " Diam. of head | | 11 5/8" | ✓ | |
| " Mainpiece at top pintle | | ✓ | | |
| " " heel | | ✓ | | |
| " how constructed | | FABRICATED | ✓ | |
| ✓ " double or single plate | | DOUBLE | ✓ | |
| " coupling, vertical or | | VERTICAL | | |
| " horizontal | | | | |

| | | Plating Thickness. | STIFFENERS. | | | |
|------------|-----------------------------|-----------------------|---|--|--------------------|---------------|
| | | | VERTICAL. | | HORIZONTAL. | |
| | | | Scantlings. | Spacing. | Scantlings. | Spacing. |
| MIDSHIP | BULKH'D, Upper 'tween decks | .26 ✓ |  | 6" DEEP ✓ | ✓ | ✓ |
| " | " Second " | ✓ | | | | |
| " | " Third | ✓ | | | | |
| " | " Holds AMIDSHIPS | No 3i BHP ✓ .38 ✓ | 8x3 1/2 x .50 OA. WELDED @ | 32 3/8 ✓ | ✓ | ✓ |
| " | " | .34 ✓ | TROUGHED 12" DEEP ✓ |  | | |
| COLLISION | (in Hold) No. 144 FRE | .53-40 ✓ | 9x3 1/2 x 41L ✓ | 24 ✓ | 3.5 B BEAMS ✓ | |
| AFTER PEAK | " | 9 FRE .50-75-30 ✓ | 6x3x50L ✓ | 24 ✓ | 3-6x3x36L HORIZL ✓ | 2.5 B BEAMS ✓ |

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open Hearth.*

Consett Iron Co., South Durham. Cargo 4 feet, Skinning etc.

Appley, Frodingham, & Dorman Long.

Has the Steel been tested as required by the Rules? *yes.*

| EQUIPMENT No. 40157 ✓ | | | | | | | | | | | | LETTER 21 ✓ | | ANCHORS. | | | | |
|------------------------|-------------------|--------------------|------|------|------------------|------|------|------------------------|-------|------|------|------------------------------|------------------------|------------|--|--------------------------|----------------------|----------------------------|
| Number of Certificate. | Anchors. | WEIGHT, EX. STOCK. | | | WEIGHT OF STOCK. | | | TEST, PER CERTIFICATE. | | | | WEIGHT REQUIRED BY TABLE 53. | Description of Anchor. | Makers. | Where and when tested, and Superintendent. | | | |
| | | Cwts. | qrs. | lbs. | Cwts. | qrs. | lbs. | Tons. | cwts. | qrs. | lbs. | | | | | | | |
| 46980 | 1st Bower ... | 68 | 2 | 0 | ✓ | ✓ | ✓ | 52 | 18 | 3 | 0 | ✓ | 68 ✓ | STOCK LESS | W. J. Byer 60th | L.P.H. 5 9-1-45 F.W.D. ✓ | | |
| 46979 | 2nd ,, ... | 68 | 1 | 0 | ✓ | ✓ | ✓ | 52 | 15 | 2 | 14 | ✓ | 68 ✓ | do | do | L.P.H. 5 9-1-45 F.W.D. ✓ | | |
| | 3rd ,, ... | | | | | | | | | | | | 58 1/2 | | | | | |
| | Collective weight | | | | | | | | | | | | 194 1/2 | | | | | |
| 28713 | Stream | 18 | 3 | 14 | ✓ | ✓ | ✓ | 5 | 0 | 21 | 19 | 15 | 1 | 7 | ✓ | 19 | RODGER STEEL STOCK ✓ | L.P.H. LW 11-9-44 R.J.V. ✓ |

| CHAIN CABLES. | | | | | | | | | | HAWSERS AND WARPS. | | | | | | | | | |
|---------------------------|---------------------------|-------|-----------------------------------|----------------------------------|------------------------|------|-----------|---------------------------------|----------|--------------------------------|-------------------|--|-------------------|---------------------------|------|-------------------------------|-------------------------------|------|-------------------------------|
| Number of Certificate. | Length and size supplied. | | Test per Certificate. | | WEIGHT OF CHAIN CABLE. | | | Length and Size per Table 53. | | Description. | Makers of Cables. | Where and when tested, and Superintendent. | Material. | Length and Size supplied. | | Breaking Test of Steel Wire. | Length and Size per Table 53. | | |
| | Length. | Diam. | Statutory. | Breaking. | Supplied. | | Per Rule. | Length. | Diam. | | | | | Length. | Clr. | | Length. | Clr. | Length. |
| | Fathoms. | Ins. | Tons. | Tons. | Cwts. | qrs. | lbs. | Cwts. | Fathoms. | Ins. | | | | Fathoms. | Ins. | Tons. | Fathoms. | Ins. | |
| 3808 | 270 | 2 | 100 ¹⁶ / ₃₂ | 141 ² / ₃₂ | 586 | -0- | 21 | 720 ³ / ₄ | 270 | 2 ⁵ / ₁₆ | TAYCO | S. TAYLOR & SONS | LPH-N 31-8-44 JAP | TOWLINE | 120 | 4 ³ / ₄ | 64.6 | 120 | 4 ³ / ₄ |
| | | | | | | | | | | | | | | HAWSERS & WARPS } | 90 | 4 ³ / ₄ | 64.6 | | |
| | | Clr. | | | | | | | | Clr. | | | | " | 2075 | 3 ¹ / ₄ | 21.7 | | |
| Stream Chain Steel Wire } | 90 | 5 | | 52.8 | | | | | 90 | 5 | | | | " | 2075 | 2 ³ / ₄ | 15.2 | | |
| | | | | | | | | | | | | | | " | 2090 | 2 ³ / ₄ | 15.2 | | |

Steering Gear, Type (Power ~~or~~ hand) *John Harstie & Co (steam)* ✓ Alternative Means of Steering *Block and tackle to warping winch.* ✓

Steering Chains (Size and Test) *Telemotor controlled* ✓ Windlass *Clarke Chapman* ✓ Boats *3 lifeboats 26 ft 42 persons* ✓

Ceiling in Holds, thickness and material *2 1/2" W.W. at bilges only* ✓ Cargo Battens, thickness, material and spacing *not fitted cleats supplied.* ✓

Cargo Hatchways.—(Upper Deck) *Steel plates and angles (recessed)* ✓ Thickness of Hatches *3" at all hatches* ✓

Size of Hatchways No. 1 (Fwd.) *31'-6" x 23'* No. 2 *36' x 23'* No. 3 *36' x 23'* No. 4 *36' x 23'* No. 5 *36' x 23'* No. 6 *36' x 23'* ✓

Number of Shifting Beams *6* ✓ *7* ✓ *7* ✓ *7* ✓ *7* ✓

Builder's Signature *George A. Mork* ✓

GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel *No* ✓

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo *No* ✓ The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point (where required to be inserted in the Notation).

This ship has been built in conformity with the Society's Rules and Regulations and the Secretary's letters. The scantlings and arrangements are in accordance with or equivalent to those shown on the approved plans. The materials and workmanship are good. The double bottom, fore and after peaks and deep tanks have been tested under water pressure and found good. The decks, upper, second and fore-castle, bulkheads, tunnel, and W.T. doors have been hose tested and found good. The steering gear, secondary means of steering, and windlass have been tested whilst moored in the river. The bilge suction and hand pumps have been tested and found good. Cargo battens have not been fitted but cleats supplied. The third bower anchor has not been supplied. Hatch covers have been fitted at second deck hatches except at Nos 1, 6, and in way of grain feeder at No 3 hatch. The freeboard markings have been verified and cut in on the vessel's sides. ✓

The amount of Entry Fee..... £ 10 .. Fees applied for, *20 APR 1945* (Special notations, where part of class, to be stated.)

Special Survey Fee..... £ 382 7 6 Received by me, *19*

Specification
Freeboard
Travelling Expenses, if any £ : : 19

I am of opinion the Vessel should be Classed ** 100 A1* with freeboard.

State whether the Vessel has been built under Special Survey *yes* Signature *M. Wilson*
Surveyor to Lloyd's Register of Shipping.

Full Certificate to be sent to *SUNDERLAND* ✓ Date of issue *31/5/45*

Committee's Minute *18 MAY 1945*

Character assigned *+100A1*
"with freeboard." 4.45
Lloyd's A & CP
+LMC 4.45
FD. C.L. Spt.

Note for S.R.L.

012211-012220-0100 2 1/2

GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

This vessel is of the P.F.C. type and the following pre-fabricated materials have been embodied in the structure:-
Centre girder, keel plates, floors, bulkheads, tank margin plates, tank top plates, deck girders, hatch end beams, shell plates (midship), deck plates, side frames, upper and second deck longitudinal and transverses, built angle intercostals, intercostal frames, hatch webs, engine and boiler casing, midship dockhouses, cantilevers, tunnel, water ballast tank, coal bunkers, centreline bulkheads, stringer angle, bulwarks, provision store, trunk bulkheads, coal & escape hatches and skylight.

Docking:-
Vessel docked in Greenwell's dry dock 19-4-45. Bottom and rudder cleaned, examined and found good, and re-coated.

PARTICULARS OF ELECTRIC WELDING (if employed) Tank top seams & butts welded, margin plate, second deck and deep tank top welded to shell. Tank side brackets, bulkheads, tunnel, deep tank bulkheads, gusset plates and thrust seat welded to tank top. Tunnel and recess butts and seams welded. Intermediate frames in tween decks welded to second deck, bulkheads welded to second and upper decks. Ventilator coamings welded to upper deck. Butts of keel and centre girder welded.

SPECIAL NOTATIONS:- Either as part of the vessel's class or for record in the Register Book. E.S.D. D.F.
FIVE DIVISIONAL W.T. BULKHEADS IN TWEEN DECKS

| | |
|---|--|
| Particulars of Drop Test of Cast Steel Anchors, viz.:- Weight, Surveyor's Initials, Number of Certificate, Date of Test. | 1st Bower 44-3-14 J.H.J. 6530 10-11-44 |
| | 2nd " 44-2-21 J.H.J. 6532 10-11-44 |
| | STEAM 17-3-18 S.P.R. 6421 1-9-44 |

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle 380 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated. ☒
Official No. 180154 Signal Letters ☒ Extreme Breadth over Belting (Circ. 1611) ☒ Over-all Length 447'-9" (Circ. 1703) ☒
No. and Material of Decks 2 Decks (steel)
Parts of Bottom of Vessel coated with cement or approved composition Cement in double bottom tanks peak tank and bilges.
Particulars of composition (if fitted) and of approval ☒

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284) Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

| Where Fitted. | Length. | Water Capacity. | Where Fitted. | Length. | Water Capacity. |
|--|-------------------------------------|-------------------------------------|---|---------|-----------------|
| Double bottom, aft, | 66.00 | 252 | Fore peak tank, | 24.25 | 191 |
| Double bottom, under Engines and Boilers, | 42.00 | 203 | After peak tank, | 20.00 | 155 |
| Double bottom, if under Engines only, | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Deep tank, aft, Tank in way of tunnel, | 51.00 | 320 |
| Double bottom, if under Boilers only, | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Deep tank, forward, Peeling tank, | 15.75 | 280 |
| Double bottom, forward, | 208.50 | 828 | Other tanks, if fitted, AT SIDES OF E.R. P&S. | 21.00 | 330 |
| Total length (if continuous) and Capacity. | 316.50 | 1283 | (If necessary furnish further information by sketch.) | | |

Order for Special Survey No. 6121
Date 21.12.43
Dates of Surveys held while building
1944. June 20, July 5, Aug. 28, Sep. 6, 11, 25, Oct. 23, 19 25, Nov. 1, 3, 6, 8, 13, 14, 16, 17, 20, 22, 27, 29, Dec. 1, 4, 5, 8, 13, 14, 15, 20, 21, 22, 27, 28, 1945. Jan. 2, 4, 5, 8, 9, 11, 12, 15, 16, 17, 18, 22, 23, 24, 25, 29, 30, 31, Feb. 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 20, 21, 22, 23, Mar. 4, 8, 22, 23, 29, Apr. 3, 4, 10, 11, 12, 13, 16, 17, 18, 19