

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

No. 18666

74 July 1945

Machinist alt.

State Type of Erections & Poop deck

Built at West Hartlepool

Launched 10th May 1945 Yard No. 1180

Builders William Gray & Co Ltd.

Owners Ministry of War Transport-

Managers Glen & Co Ltd

Residence

Port of Registry West Hartlepool

If surveyed while building, afloat, or in dry dock

Building afloat & in dry dock

| | INCHES IN SHIP. | Any Departure from Approved Plans to be Noted. | | INCHES IN SHIP. | Any Departure from Approved Plans to be Noted. |
|--|-------------------|--|---|-----------------|--|
| FRAMES, Spacing amidships..... | 27 | ✓ | Bracket Floors, Frame | ✓ | |
| " " from 1/8 length amidships to Collision bulkhead.....} | 27 | | " " Reversed Frame..... | ✓ | |
| " " in peaks | 24 | ✓ | " " Vertical Struts | ✓ | |
| SIDE FRAMING. | | | Centre Girder, depth and thickness amidships | 42" x .42 | ✓ |
| Frame Amidships, Angle, E or F | 11 3 1/2 .42 | ✓ | " " top Angles | 3 3 .40 | ✓ |
| " " Extends up to..... | Upper deck | ✓ | " " bottom Angles..... | 3 1/2 3 1/2 .44 | ✓ |
| Reversed Frame Amidships, Angle Bulk | 12 3 1/2 .45 | ✓ | Side Girders, No. each side and thickness..... | 1- .32 | ✓ |
| " " Extends up to .. | R. Q. deck | ✓ | Margin Plate depth (excl. of flange) and thickness | 32" x .43 | ✓ |
| Depth of Framing Girder..... | 11" x 12" | ✓ | " " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem <i>Panting area</i> | 3 1/2 3 1/2 .34 | ✓ |
| Frames in Uppermost Continuous 'tween Decks, Angle, [or] | ✓ | | " " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area | 5 5 .34 | ✓ |
| " " Second 'tween Decks, Angle, [or] | ✓ | | " " Gussets, spacing and scantling abaft 1/4 len. from stem..... | .34 continuous | ✓ |
| " " Third " " " " | ✓ | | " " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area | 36 " (RO'dk) | ✓ |
| " " from 1/8 len. for'd. to 15% len. from Stem | 11 3 1/2 .46 | ✓ | Tank Side Brackets, height above base line at toe of Frame and thickness | 61" x .38 4 .40 | ✓ |
| " " in Peaks, Angle or [| 7 3 1/2 .33 | ✓ | INNER BOTTOM PLATING. | | |
| Diameter and Spacing of Rivets through Frame and Shell Plating amidships | 7/8 - 6 1/4" | ✓ | Breadth and thickness of Middle Line Strake... | 86" x .57 | ✓ |
| State if Frame Joggled..... | Yes | ✓ | Thickness of remainder in Holds | .57 | ✓ |
| Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved? | as approved | ✓ | Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?..... | Yes | ✓ |
| Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved? | as approved | ✓ | BEAMS. | | |
| ANGLE BOTTOM. | | | Uppermost Continuous Deck, amidships in Wells, Angle, E or F | 5' 3 1/2 .34 | and large bolts every 4 ft frame |
| Floors, Depth and thickness at mid-line in Holds..... | | | Through " " in way of Bridge, Angle, E or F | 6 3 1/2 .36 | ✓ |
| Height of Brackets at side above base line at toe of frame..... | | | (2nd) Spacing | Every | ✓ |
| Middle Line Keelson, on Floors, Angles, [or] | | | Raised Quarter Second Deck, amidships, Angle, E or F | 5' 3 1/2 .34 | and large bolts every 4 ft frame |
| " " Through Plate or Intercostal Plate | | | Spacing | every 2 ft plan | |
| " " Foundation Plate on Floors | | | Raised Quarter Third Deck, amidships, Angle, E or F (Through) | 8 3 .34 | BA and angle |
| " " Flat Plate Keel Angles | | | Spacing | 6 3 1/2 .36 | ✓ |
| Side Keelsons, No. each side..... | | | Fourth Deck, amidships, Angle, [or] | ✓ | |
| " " thickness of Intercostal Plate.... | | | Spacing..... | ✓ | |
| " " Angles | | | Poop Deck, Angle, E or F | 6 3 .43 | ✓ |
| DOUBLE BOTTOM. | | | Spacing..... | 6 3 .32 | ✓ |
| Solid Floors, thickness and spacing | .34 every | ✓ | Bridge Deck, Angle, [or] | ✓ | |
| " " Are Frame and Reversed Frame joggled? | Frame Yes Rev. No | ✓ | Spacing..... | ✓ | |
| Bracket Floors, breadth and thickness at middle line | ✓ | | Forecastle Deck, Angle, E or F | 6 3 .32 | ✓ |
| " " breadth and thickness at margin plate..... | ✓ | | Spacing..... | Every | |

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 ... <i>Trunk deck</i> | | 50 | ✓ | | |
| " " " " " " | | ✓ | | | | Thickness of Plating abreast Deck openings in way of Bridge..... | | ✓ | | | |
| " in Holds " " " " " " | | ✓ | | | | Thickness of Plating within line of openings... <i>Trunk dk</i> | | 37 in way of bridge house | | | |
| " " " " " " | | ✓ | | | | If Sheathed, material and thickness..... | | un sheathed | ✓ | | |
| Centre Line Bulkhead. | | ✓ | | | | Third Deck. | | | ✓ | | |
| Stiffeners and Spacing | | | | | | Stringer Plate, breadth and thickness..... | | | | | |
| Plating, thickness of | | ✓ | | | | If Plated, state thickness | | | ✓ | | |
| STRINGERS AND DECKS. | | | | | | Fourth Deck. | | | ✓ | | |
| Uppermost Continuous Deck. | | | | | | Stringer Plate, breadth and thickness..... | | | | | |
| Stringer Plate, breadth and thickness in Wells | | 85½ | 76 | ✓ | | If Plated, state thickness..... | | | ✓ | | |
| " " " " " in way of Bridge | | ✓ | | | | Poop Deck. | | | ✓ | | |
| " Angle in Wells | | 6 | 6 | .62 | ✓ | Stringer Plate, breadth and thickness..... | | 38½ | 32 | ✓ | |
| Thickness of Plating abreast Deck openings } in way of Wells ... <i>Trunk deck</i> | | 60 | ✓ | | | Plating, Sheathing, material and thickness ... | | 32½ | 30 | ✓ | |
| Thickness of Plating abreast Deck openings } in way of Bridge..... | | ✓ | | | | Thickness of Plating within line of openings... <i>42 Trunk deck</i> ✓ | | | | | |
| Thickness of Plating within line of openings... | | 42 | Trunk deck | ✓ | | Bridge Deck. | | | ✓ | | |
| If Sheathed, material and thickness..... | | un sheathed | | ✓ | | Stringer Plate, breadth and thickness..... | | 33 | 34 | | |
| Ringed Quarter Second Deck. | | | | | | Plating, Sheathing, material and thickness ... | | 31 | 22 | | |
| Stringer Plate, breadth and thickness in Wells | | 85½ | 54 | ✓ | | Forecastle Deck. | | | ✓ | | |
| | | | | | | Stringer Plate, breadth and thickness..... | | 32 | ✓ | | |
| | | | | | | Plating, Sheathing, material and thickness... | | 32 | ✓ | | |
| | | | | | | | | un sheathed | | | |

SHELL PLATING.

| SCANTLINGS. | | | | | RIVETING. | | | | | | | | |
|--|---------------|------------|------------|------------|--|--------------------------|----------------------|---------|-----------------------|---------------------------|---------|-----------------------|------------------------|
| STRAKES. | AS IN VESSEL. | | | | ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED. | EDGES. | | | BUTTS. | | | | |
| | AMIDSHIPS. | | FORWARD. | AFT. | | State if jogged? No ✓ | 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..... "A" | 46½ | .65 | .59 | .59 | ✓ | Double ✓ | 7/8 | 3 3/8 | ✓ | Double ✓ | 7/8 | 3 3/8 | Lapped ✓ |
| „ Dblg. (if any) | | | ✓ | | | | | | ✓ | | | | |
| Bottom Plating, No. of Strakes 3:..... "B.C.D." | | .53 ✓ | .44 | .44 | ✓ | Double ✓ | 7/8 | 3 3/8 | ✓ | Double ✓ | 7/8 | 3 3/8 | Lapped ✓ |
| Bilge Plating, No. of Strakes 1:..... "E" | | .53 ✓ | .44 | .44 | ✓ | " | 7/8 | 3 3/8 | ✓ | Double ✓ | 7/8 | 3 3/8 | Lapped ✓ |
| Side Plating, No. of Strakes 1:..... "F" | | .52 ✓ | X .43 | .43 | X. Fitted .52 in line of stringers | " | 7/8 | 3 3/8 | ✓ | Double ✓ | 7/8 | 3 3/8 | Lapped ✓ |
| Upper Deck, Sheer- strake in Wells..... | 82½ | .62 ✓ | X .43 | .43 | ✓ | ✓ | | | | Quad ✓ | 1" | 4" | Lapped ✓ |
| Upper Deck, Sheer- strake in Bridge..... | | .52 ✓ | - | .43 | ✓ | Double ✓ | 7/8 | 3 3/8 | ✓ | Double ✓ | 7/8 | 3 3/8 | Lapped ✓ |
| Strake below Sheer- strake in Wells..... "G" | 82" | .56 ✓ | X .43 | .43 | ✓ | " | 7/8 | 3 3/8 | ✓ | Double ✓ | 7/8 | 3 3/8 | Lapped ✓ |
| Strake below Sheer- strake in Bridge..... | | .52 ✓ | - | .43 | ✓ | " | 7/8 | 3 3/8 | ✓ | Double ✓ | 7/8 | 3 3/8 | Lapped ✓ |
| Poop Side Plating..... | | | | .51 - .34 | ✓ | Single ✓ | 7/8 | 3 | ✓ | Double to single ✓ | 7/8 | 3 3/8 | Lapped ✓ |
| Ramid A = dk Sheer Bridge Side Plating..... | 62 | .58 ✓ | - | .43 | ✓ | ✓ | | | | Double ✓ | 7/8 | 3 3/8 | Lapped ✓ |
| Forecastle Side Plating | | | .38 | | ✓ | Single ✓ | 7/8 | 3 | ✓ | Single ✓ | 7/8 | 3 3/8 | Lapped ✓ |

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel— 1 Intermediate bhd disposed with
Extending to Upper Deck (Sec. 3 c) 2 plus 2 dup tank Bulkheads.
,, Deck next below 1 (aft peak).
As per Rule 5.

FORGINGS AND CASTINGS.

| | Casting or Forging. | Scantlings. | Maker's Name. | Any Departure from Approved Plans to be Noted. |
|---------------------------------|---------------------|---|---------------|--|
| KEEL, Bar | | ✓ | | |
| STEM | | rolled bar $8\frac{1}{2} \times 2\frac{1}{2}$ ✓ | | |
| STERN FRAME | Propeller Post | Forged Iron $9\frac{1}{2} \times 6$ ✓ | CMCW | |
| | Rudder " | " " $9\frac{1}{2} \times 6$ ✓ | " | |
| Speed of Vessel | | under 12 knots ✓ | | |
| RUDDER—Type | | ordinary | 2 pintles ✓ | |
| " A \times D | | 270 ✓ | | |
| " Diam. of head | | Forged Iron $8\frac{1}{2} + 10\frac{1}{2} = 8\frac{1}{2}$ ✓ | CMCW | |
| " Mainpiece at top pintle | | wrapper plate 10" dia ✓ | | |
| " " heel | | " " ✓ | | |
| " how constructed | | welded ✓ | | |
| " double or single plate | | Double plate ✓ | | |
| " coupling, vertical or | | vertical. 2020 | | |

STIFFENERS.

| | | Plating Thickness. | STIFFENERS. | | | |
|------------|-----------------------------|--------------------|--|----------------|----------------------------|---------------|
| | | | VERTICAL. | | HORIZONTAL. | |
| | | | Scantlings. | Spacing. | Scantlings. | Spacing. |
| MIDSHIP | BULKH'D, Upper 'tween decks | | | | | |
| " | " Second " | | | | | |
| " | " Third " | | | | | |
| " | " Holds | 47-32 | 10 x 3 1/2 x 46 1/2 10 x 3 1/2 x 40 1/2 4 x 3 x 36 L G | 28" ✓ 24" ✓ | } Hov. 9rdns as per plan ✓ | |
| | | 46-30 | 8 x 3 x 38 1/2 | 24" ✓ | | |
| COLLISION | (in Hold) | 46-7/8-30 | 4 x 3 x 36 L G 7 x 3 x 33 1/2 | 24" ✓ 24" ✓ | | Semi br beams |
| AFTER PEAK | | | | | | |

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *open heart*
Lorman Long & Co, South Durham S. & I B. Skinningrove Iron Co.
Cargo Fleet Iron Co, Consett Iron Co.

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

ANCHORS.

HAWSERS AND WARPS.

Builder's Signature.....*Geo. T. Simpson*.....
 GENERAL MANAGER

This vessel has been built in conformity with the Society's Rules + Regulations and the Secretary's letters. The scantlings + arrangements are in accordance with, or equivalent to, those shown on the approved plans. The materials and the workmanship are good. All double bottom tanks, peak tanks + midship deep tanks have been tested as required by the rules + found satisfactory. The weather decks + watertight bulkheads + W.T. door have been satisfactorily tested. The assigned freeboards have been marked on the vessel's sides, verified + cut in. The windlass + steering gear have been satisfactorily tested under working conditions.

Signature W. J. Craig.
Surveyor to Lloyd's Register of Shipping.

F.D. C.L

note for S.R.L.

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.)

Vessel somewhat similar to "Empire Cairns" & previous vessels, but with various alterations.

Forging reports attached.

PARTICULARS OF ELECTRIC WELDING (if employed)

Bridge keel T bar welded to shell.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book

Square cruiser stern, Lloyds A+Cp, notation about equipment, 1 deck steel, Cargo battens not fitted. Intermediate bulkhead dispensed with. 4 Bhd.

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

1st Bower
2nd
3rd

Weight in lbs.
28.3.14

Surveyor's initials
J.N.J.

No. of Certificate
6201

Date of test
14.4.44

27.3.11

J.H.J.

6200

14.4.44

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 71 ft., R.Q.D. 197 ft., Bridge ft., Forecastle 29 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

Official No. 180083

Signal Letters

Extreme Breadth over Belting
(Circ. 1611)

Over-all Length
(Circ. 1703) 328'0"

No. and Material of Decks 1 deck steel

Parts of Bottom of Vessel coated with cement or approved composition. Bridges, frames & boiler room D.B. tanks cemented. Cement covering rivet heads in bottom frames, girders etc. in remaining D.B. tanks.

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. Feet. | Water Capacity. Tons. | Where Fitted. | Length. Feet. | Water Capacity. Tons. |
|---|------------------|--------------------------|---|------------------|--------------------------|
| Double bottom, aft, | ✓ | ✓ | Fore peak tank, | 27.1 | 228 |
| Double bottom, under Engines and Boilers, | 47.25 | 117 | After peak tank, | 16.25 | 44 |
| Double bottom, if under Engines only, | ✓ | ✓ | Deep tank, amidships | 15.75 | 603 |
| Double bottom, if under Boilers only, | ✓ | ✓ | Deep tank, forward, | | |
| Double bottom, forward, | 218.25 | 768 | Other tanks, if fitted, | | |
| Total length (if continuous) and Capacity | 265.50 | 885 | (If necessary furnish further information by sketch.) | | |

Order for Special Survey No. 2495

Date 13.9.44

Dates of Surveys held while building

1944. Oct 4. 6. 11. 17. 30. Nov 16. 23. 28. Dec 1. 6. 14. 1945. Jan 5. 11. 24. Feb 8. 12. 14. 27. Mar 2. 9. 12. 14. 20. 23. 24. 26. 30. April 8. 12. 13. 18. 22. 23. May 10. 15. 18. 22. 30. 31. June 3. 4. 6. 12. 13. 14. 16. 19. 21. 29. July 3. 4. 6. 7

Total No. of Visits 53