

State if Report has been sent on the Freeboard of the Vessel No.

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

Date of completion of report 29th May, 1942 Port of HULL. No. 51610.
Survey held at HESSLE AND HULL. Date First Survey 25th Feb'y 1941. Last Survey 27th May 1942.

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw)..... STEEL SINGLE SCREW TUG EMPIRE RACE.

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) **FULL SCANTLING.** State Type of Erections **FLUSH DECK.**

| | | | | | |
|--|------------|--|--|-------|---|
| TONNAGE under Tonnage Deck...} | 228.85 | CLASS 100M "FOR TOWING SERVICES" "SEAGOING" | State if with freeboard as condition of Class | No. | Built at HESSLE. |
| Do. of space or spaces between Tonnage Dk. and Upper Dk. | ✓ | Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) | L | 105.0 | Launched 24TH NOVEMBER, 1941. Yard No. 5421. |
| Total | 228.85 | Breadth (greatest moulded) | B | 26.5 | Builders MESSRS. HENRY SCARR, LTD. |
| Gross Tonnage | 242.33 | Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) | D | 13.5 | Owners MINISTRY OF SHIPPING. |
| Register Tonnage | <i>Nil</i> | 1st Longitudinal Number (L × D) | = | 1417 | Managers ✓ (Where necessary to be entered in Reg. Book.) |

| REGISTERED DIMENSIONS. | | | | Residence | |
|------------------------|--------|---|---------|---|----------------------|
| FEET. | | | | LONDON. | |
| Length | 106.75 | Framing Depth "d," at middle of length. See } Sec. 3 (1d) | ✓ | Port of Registry | HULL. |
| Breadth | 26.7 | Proportions—Depth to Length—Uppermost con- } tinuous deck to top of keel | 7.77. ✓ | Surveyed while building, afloat, or in dry dock | |
| Depth | 11.6 | Do. Long Bridge to top } of keel } | ✓ | | |
| | | Draught Moulded | ✓ | | BUILDING AND AFLOAT. |

FRAMES, DOUBLE BOTTOM AND BEAMS.

| | 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 | 21" | | Bracket Floors, Frame | ✓ |
| " " from $\frac{3}{4}$ length amidships to Collision bulkhead.....} | 22" IN BOILER SPACE. | ✓ | " " Reversed Frame | ✓ |
| " " in peaks..... | 21" | | " " Vertical Struts | ✓ |
| SIDE FRAMING. | | | Centre Girder, depth and thickness amidships | 30" x 24" x .44 |
| Frame Amidships, Angle, \angle or \square | 5" x 3" x .30 B.A. | ✓ | " " top Angles | 22" x 22" x .38 SINGLE. |
| " " Extends up to | 5" x 3" x .36 B.A. IN BUNKERS AND BOILER ROOM. | ✓ | " " bottom Angles | 3" x 3" x .42 SINGLE. |
| Reversed Frame Amidships, Angle | 22" x 22" x .36 | ✓ | Side Girders, No. each side and thickness | ✓ |
| " " Extends up to | ACROSS FLOORS | ✓ | Margin Plate depth (excl. of flange) and thickness | ✓ |
| Depth of Framing Girder | 5" | ✓ | " " Vertical Angle to Tank side | ✓ |
| Frames in Uppermost Continuous 'tween Decks, Angle, \angle or \square | | | Bracket abaft $\frac{1}{4}$ len. from stem | ✓ |
| " " Second 'tween Decks, Angle, \angle or \square | | | " " Vertical Angle to Tank side | ✓ |
| " " Third " " " " " " | | | Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area | ✓ |
| " " from $\frac{1}{4}$ len. for'd. to 15% len. from Stem | | | " " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem | ✓ |
| " " in Peaks, Angle or \angle | 5" x 3" x .30 B.A. | ✓ | " " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area | ✓ |
| Diameter and Spacing of Rivets through Frame and Shell Plating amidships | 5" $\frac{1}{8}$ - 42" | ✓ | Tank Side Brackets, height above base line at toe of Frame and thickness | ✓ |
| State if Frame Joggled | No. | ✓ | INNER BOTTOM PLATING. | |
| Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved? | YUG. | ✓ | Breadth and thickness of Middle Line Strake ... | 58" x .42. |
| Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved? | YUG. | ✓ | Thickness of remainder in Holds | .44 |
| SINGLE BOTTOM. | | | 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? | ✓ |
| Floors, Depth and thickness at mid-line in Holds | 17" x .30" - .40" IN. B.R. | ✓ | BEAMS. | |
| Height of Brackets at side above base line at toe of frame | ✓ | | Uppermost Continuous Deck, amidships | 5 x 3 x .32. |
| Middle Line Keelson, on Floors, Angles, \angle or \square | 32 x 3 x .40 DOUBLE IN BOILER SPACE. | ✓ | " " in Way of Bridge, Angle, \angle or \square | 4" x 22" x .30 HALF BEAMS. |
| " " " Through Plate | .42 IN BOILER SPACE. | ✓ | " " in Way of Bridge, Angle, \angle or \square | 21" AND 22" |
| " " " Foundation Plate | .30 UNDER FORE CABINS. | ✓ | Spacing | |
| " " " Flat Plate Keel Angles | 12" x .42 EACH SIDE OF CENTRE LINE. | ✓ | Second Deck, amidships, Angle, \angle or \square | |
| Side Keelsons, No. each side | 32 x 32 x .46 DOUBLE IN BOILER SPACE. | ✓ | Spacing | |
| " " thickness of Intercoastal Plate | ✓ | | Third Deck, amidships, Angle, \angle or \square | |
| " " Angles | 5 x 4 x .38 FOR'D OF BOILER SPACE. | ✓ | Spacing | |
| DOUBLE BOTTOM, 25-36 RESERVE FEED TANK. | | | Fourth Deck, amidships, Angle, \angle or \square | |
| Solid Floors, thickness and spacing | .36 21" - 22" SPACING. | ✓ | Spacing | |
| " " Are Frame and Reversed Frame joggled? | No. | ✓ | Poop Deck, Angle, \angle or \square | |
| Bracket Floors, breadth and thickness at middle line | ✓ | | Spacing | |
| " " breadth and thickness at margin plate | ✓ | | Bridge Deck, Angle, \angle or \square | |
| | | | Spacing | |
| | | | Forecastle Deck, Angle, \angle or \square | |
| | | | Spacing | |

| PILLARS' AND DECKS. | | | | | |
|---|--|-----------------|--|--|--|
| | | INCHES IN SHIP. | | Any Departure from Approved Plans to be Noted. | |
| PILLARS, No. of Rows..... | | | | | |
| " in 'tween Decks, Size and Spacing..... | 2 1/8 DIA. IN CONJUNCTION WITH FORE & AFT SIDERS | | | | |
| " " " " " | FITTED IN FORE & AFT ALL. | | | | |
| " in Holds | | | | | |
| " " " " " | | | | | |
| Centre Line Bulkhead. | | | | | |
| Stiffeners and Spacing..... | | | | | |
| Plating, thickness of | | | | | |
| STRINGERS AND DECKS. | | | | | |
| Uppermost Continuous Deck. | | | | | |
| Stringer Plate, breadth and thickness in Wells | 57 x 30 | | | | |
| " " " " , in way of Bridge | ✓ | | | | |
| " Angle in Wells | 3 x 3 x 30. | | | | |
| Thickness of Plating abreast Deck openings in way of Wells | 28 - 26. | | | | |
| Thickness of Plating abreast Deck openings in way of Bridge | ✓ | | | | |
| Thickness of Plating within line of openings.. | 26 ✓ | | | | |
| If Sheathed, material and thickness | ✓ | | | | |
| Second Deck. | | | | | |
| Stringer Plate, breadth and thickness in Wells... | ✓ | | | | |
| Stringer Plate, breadth and thickness in way of Bridge | | | | | |
| Thickness of Plating abreast Deck openings in way of Wells | | | | | |
| Thickness of Plating abreast Deck openings in way of Bridge | | | | | |
| Thickness of Plating within line of openings.. | | | | | |
| If Sheathed, material and thickness | | | | | |
| Third Deck. | | | | | |
| Stringer Plate, breadth and thickness..... | | | | | |
| If Plated, state thickness..... | | | | | |
| Fourth Deck. | | | | | |
| Stringer Plate, breadth and thickness..... | | | | | |
| If Plated, state thickness | | | | | |
| Poop Deck. | | | | | |
| Stringer Plate, breadth and thickness | | | | | |
| Plating, Sheathing, material and thickness ... | | | | | |
| Bridge Deck. | | | | | |
| Stringer Plate, breadth and thickness..... | | | | | |
| Plating, Sheathing, material and thickness ... | | | | | |
| Forecastle Deck. | | | | | |
| Stringer Plate, breadth and thickness..... | | | | | |
| Plating, Sheathing, material and thickness ... | | | | | |

[illegible]

| WATERTIGHT BULKHEADS. | | FORGINGS AND CASTINGS. | |
|---|--|--|--|
| Total No. of W.T. BULKHEADS in Vessel— | | Casting or Forging. | |
| Extending to Upper Deck (Sec. 3 c) | | Scantlings. | |
| " Deck next below | | Maker's Name. | |
| As per Rule | | Any Departure from Approved Plans to be Noted. | |
| STIFFENERS. | | KEEL, Bar | |
| VERTICAL. | | STEM | |
| HORIZONTAL. | | STERN FRAME | |
| Scantlings. | | Speed of Vessel | |
| Spacing. | | RUDDER—Type | |
| Scantlings. | | " A x D | |
| Spacing. | | " Diam. of head | |
| Mainpiece at top pintle | | " heel | |
| how constructed | | double single plate | |
| coupling | | horizontal | |
| HORIZONTAL. | | MANUFACTURER'S NAME OR TRADE MARK OF THE STEEL USED IN THE CONSTRUCTION OF THE VESSEL (state process of manufacture) | |
| PLATES:—APPLEBY-FRODINGHAM STEEL CO., LD. | | SECTIONS:—DORMAN-LONG & CO., LD. | |
| Has the Steel been tested as required by the Rules? | | YES. | |

| EQUIPMENT No. | | | | LETTER | | | | ANCHORS. | | | |
|------------------------|--------------------|-------------------|------------------|------------------------|-------|-----------|------------------------------|------------------------|-------------|---|--------------|
| Number of Certificate. | Anchor. | 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. | CWts. | | | | |
| 41190. | 1st Bower ... | 6 2 21 | NONE | 9 | - | - | 6-2-0 | STOCKLESS. | NOT STATED. | SUNDERLAND, 13.9.41. | W.Y. NORMAN. |
| 41222. | 2nd " ... | 6 1 0 | " | 8 | 10 | - | 6-0-0 | " | " | " | 26.9.41. |
| | 3rd " ... | | | | | | | | | | |
| | Collective weight. | 12 3 21 | | | | | 12-2-0 | | | | |
| ✓ | Stream | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | | ✓ |

| CHAIN CABLES. | | | | | | | | | | HAWSERS AND WARPS. | | | | | | | | | |
|--------------------------------------|------------------------------|-------|--------------------------|----------------|------------------------|-----------|---------|----------------------------------|----------|--------------------|-------------------|---|----------------|------------------------------|----------|------------------------------------|----------------------------------|-------|---------|
| Number of Certificates. | Length and size supplied. | | Test per Certificate. | | WEIGHT OF CHAIN CABLE. | | | Length and Size per Table 63. | | 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 63. | | |
| | Length. | Diam. | Stain- tory. | Break- ing. | Supplied. | Per Rule. | Length. | Diam. | Fathoms. | | | | | Ins. | Fathoms. | | Ins. | Tons. | Length. |
| | Fathoms. | Ins. | Tons. | Tons. | Owts. | qrs. | lbs. | Owts. | Fathoms. | Ins. | | | | Fathoms. | Ins. | Tons. | Fathoms. | Ins. | |
| 115700. | 60 | 1 | 18 | 27 | 33 | - | 24 | | 90 | 1 | STUD LINK. | NOT STATED. | MEYERSON, N.Y. | 11-3-42. | 1.5 Pkls | LOWLINE. | | | |
| 115481. | 45½ | ✓ | 18 | 27 | 25 | - | 4 | | | | " | " | " | 18' 10" 41. | " | HAWSERS & WARPS | 60 | 6" | |
| 115701A. | 30 | ✓ | 18 | 27 | 16 | - | 26. | | | | " | " | " | 11-3-42. | " | | 60 | 6" | |
| 115480B. | 15 | ✓ | 18 | 27 | 8 | - | 19. | | | | " | " | " | 18' 10" 41. | " | | 60 | 4½" | |
| | 150½ | Cir. | | | | | | | | Cir. | | | | | | | | | |
| Iron Steam Chain or Steel Wire | ✓ | ✓ | ✓ | | ✓ | | | ✓ | ✓ | ✓ | | | | | | ✓ | ✓ | ✓ | |

Steering Gear, Type (Power or hand) **HAND & STEAM STEERING GEAR BY DONKIN & CO., LTD.** Alternative Means of Steering TILLER AND BLOCKS AND TACKLES.

Steering Chains (Size and Test) **7/8" DIA. TEST 9 1/2 TONS.** Windlass HORIZONTAL STEAM BY EMERSON WALKER, LTD. Boats 2 WOOD LIFEBOATS UNDER JELIM DAVITS - 60 TONS 17' x 6' x 2-3'

Ceiling in Holds, thickness and material Cargo Battens, thickness, material and spacing

Cargo Hatchways—(Upper Deck) **2 COAL HATCHES ON CASING TOP** Thickness of Hatches **STEEL HINGED COVERS.**

Size of Hatchways **No. 1 (Fwd.)** **No. 2** **No. 3** **No. 4** **No. 5** **No. 6**

Number of **Shifting Beams** **NONE.**
and/or **Fore and Afters**

Per Pro **HENRY SCARR LTD.**
Richard Driscoll
Builder's Signature

DIRECTOR.

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. 1
(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo No. 2 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). ✓

The vessel has been built in accordance with the approved plans and specification and in conformity with the Rules for the class contemplated. ✓

The materials and workmanship are good. ✓

The fore and aft peak tanks, the reserve fuel tank and fresh water tank have been tested to Rule requirements and found satisfactory. ✓

Decks, casings, W.T. bulkheads, steering gear and windlass have been tested and found satisfactory. ✓

The amount of Entry Fee £ 2 : 0 : 0
 Supervision of Construction £ 6 2 6
 Special Survey Fee.... £ 24 : 10 : 0
 Travelling Expenses, if any £ 3 : 1 : 5

Fees applied for,
 19.6.1942
 Received by me,

I am of opinion the Vessel should be Classed **100A1**
"FOR TOWING SERVICE"
"SEAGOING"

Signature *M. J. MacDonald*
 Surveyor to Lloyd's Register of Shipping.

State whether the Vessel has been built under Special Survey **YES**

Certificate to be sent to **HULL** Date of issue **12/8/42**

A new certificate for Committee's Minutes with new record issued 4/11/42.

Character assigned **+100A1**
For Towing Services
Lloyd's arch. Edw.
Wrote H.P.J.
FRL 2 OCT 1942
amend + dinc. 6.42x
Wrote H.P.J.
to dinc 6.42x

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.)

The approved plans are being retained for reference in dealing with sister vessels. Copies of these are in the London office.

This vessel is a sister ship to the same Builders' No. 420—Hull Report No. 51597.
"EMPIRE TEAK"

Copy of completion & Interim certificates enclosed herewith.

PARTICULARS OF ELECTRIC WELDING (if employed)

Cabin plate fore and aft welded, Reserve feed tank top welded to shell. Fresh water tank top welded to shell. Sternframe and Rudder welded. All in accordance with approved plans.

Approved Electrodes employed on this work.

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

* 100A1 "FOR TOWING SERVICES."

| | | | | | | |
|---|-----------|---------|------------|------|-------|----------|
| Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test. | 1st Bower | 4-2-11 | incl. pins | J.D. | 3653. | 16-4-41. |
| | 2nd " | 3-2-21. | " " | J.D. | 3567. | 4-3-41. |
| | 3rd " | | | | | |

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 or Forecastle are joined to the B.D., this should be distinctly stated

Official No. Signal Letters ☒ Extreme Breadth over Belting 26'-9 5/8" ☒ Over-all Length 113'-4 1/2" ☒
(Circ. 1611) (Circ. 1703)

No. and Material of Decks 1 DK (STEEL) ☒

Parts of Bottom of Vessel coated with cement or approved composition CEMENT IN FORE AND AFT PEAK TANKS AND FRESH WATER TANKS, ALSO UNDER BOILER AND IN WAY OF OPEN FLOORS ELSEWHERE.

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, | 9'-0" | 18 |
| Double bottom, under Engines and Boilers, | | | After peak tank, <u>8'-9" + 6'-6" COUNTER.</u> | 15'-3" | 23 |
| Double bottom, if under Engines only, | | | Deep tank, aft, <u>FRESH WATER TANK FOR'D.</u> | 3'-5" | 6 |
| Double bottom, if under Boilers only, | | | Deep tank, forward, <u>RESERVE FEED TANK</u> | 19'-5 1/2" | 21 |
| Double bottom, forward, | | | Other tanks, if fitted, | | |
| Total length (if continuous) and Capacity | | | (If necessary, furnish further information by sketch.) | | |

Order for Special Survey No. 3247.

Date 31st Dec 1940.

Dates of Surveys held while building

1941:—Feb'y 25. March 28. April 2. 7. 9. 10. 12. 21. 23. 25. 30. May 5. 7. 12. 16. 20. 22. May 28. July 14. August 13. 19. 21. Sept 1. 5. 9. 10. 11. 15. 19. 23. 25. 30. Octo. 3. 6. 9. 10. 14. 16. 20. 21. 23. 27. 29. 30. 31. Nov. 3. 6. 10. 12. 14. 21. 26. 28 Decr. 3. 6. 10. 12. 15. 17. 18. 23. 30. 31. 1942: Jan'y 2. 6. 8. 12. 16. 19. 20. 26. Feb'y 2. 9. 12. 19. 20. Mar. 2. 3. 10. 13. 17. 20. 27. 31. April 7. 10. 13. 23. 27. 29. May 19. 21. 23. 27.

Total No. of Visits 94.