

RECEIVED

2 JUL 1946

IN D.O.

STEEL STEAMER OR MOTORSHIP. (TUG)

Received at London Office

53538

State if Report has been sent on the Freeboard of the Vessel *yes.*State if Report is sent on the Machinery of the Vessel *yes.*Date of completion of report *11th May 1946.*Port of *Hull.*

No.

*53538*Survey held at *Selly and Hull.*Date First Survey *18th September 1945*

Last Survey

2nd May

1946.

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw)

Steel single screw tug DANUBE VII.

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings)

*Hull scantling*State Type of Erections *None.*

TONNAGE under Tonnage Deck ...

*219.47*CLASS ** 100 A.1.*State if with freeboard as condition of Class *No.*

FOR TOWING SERVICES.

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)

FEET

110' 0"

Breadth (greatest moulded)

B *27' 6"*

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' 0"*

1st Longitudinal Number (L x D)

1430

2nd Numeral L x (B + D)

4455

Framing Depth "d," at middle of length. See Sec. 3 (1d)

11.5

Proportions—Depth to Length—Uppermost continuous deck to top of keel

8.46

Do. Long Bridge to top of keel

Draught Moulded

*11' 5 1/2"*Built at *Selly.*Launched *5th January 1946* Yard No. *1312*Builders *Bochane & Sons Ltd*Owners *Hillmy Contracting & Dredging Co Ltd*

Managers

(Where necessary to be entered in Reg. Book)

Residence

Port of Registry *London.*

If surveyed while building, afloat, or in dry dock

During construction

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Total

219.47

Gross Tonnage

237.16

Register Tonnage

Nil

REGISTERED DIMENSIONS.

FEET

Lh *110.6*Bh *27.6*Dh *12.2*

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 1/2 length amidships to Collision bulkhead..... | 21 | ✓ | " " Reversed Frame..... | | |
| " " in peaks | 21 | ✓ | " " Vertical Struts | | |
| SIDE FRAMING. | | | Centre Girder, depth and thickness amidships | | |
| Frame Amidships, Angle, <i>E or F</i> ✓ | 6 3 40 | ✓ | " " top Angles | | |
| " " Extends up to <i>UPPER DECK</i> | | | " " bottom Angles..... | | |
| Reversed Frame Amidships, Angle | 3 2 1/2 30 | ✓ | Side Girders, No. each side and thickness..... | | |
| " " IN ENGINE ROOM <i>F</i> | 5 5 40 | ✓ | Margin Plate depth (excl. of flange) and thickness | | |
| " " Extends up to <i>ACROSS FLOORS</i> | | | " " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem | | |
| Depth of Framing Girder..... | 6" | ✓ | " " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area | | |
| Frames in Uppermost Continuous 'tween Decks, Angle, <i>E or F</i> | | | " " Gussets, spacing and scantling abaft 1/4 len. from stem..... | | |
| " " Second 'tween Decks, Angle, <i>E or F</i> | | | " " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area | | |
| " " Third " " " " | | | Tank Side Brackets, height above base line at toe of Frame and thickness | | |
| " " from 1/2 len. for'd. to 15% len. from Stem | | | INNER BOTTOM PLATING. | | |
| " " in Peaks, Angle <i>E or F</i> | 6 3 40 | ✓ | Breadth and thickness of Middle Line Strake.. | | |
| Diameter and Spacing of Rivets through Frame and Shell Plating amidships | 3/4" - 5/4" | ✓ | Thickness of remainder in Holds | | |
| State if Frame Joggled..... | <i>No.</i> | ✓ | 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?..... | | |
| Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved? | <i>AS APPROVED</i> | ✓ | BEAMS. | | |
| Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved? | | | Uppermost Continuous Deck, amidships in | | |
| SINGLE BOTTOM. | | | Wells, Angle, <i>E or F</i> ✓ | 5 3 36 | ✓ |
| Floors, Depth and thickness at mid-line in | 18 x 36 | ✓ | " " in way of Bridge, Angle, <i>E or F</i> ✓ | 4 1/2 3 34 | ✓ |
| " " <i>HOLD IN E. & B. SPACES & BUNKER</i> | 50 | ✓ | HALF-BEAMS <i>E or F</i> | | |
| Height of Brackets at side above base line at toe of frame..... | <i>NONE</i> | ✓ | Spacing | 21 | ✓ |
| Middle Line Keelson, on Floors, Angle, <i>FORWARD E or F</i> | 6 1/2 3 50 | ✓ | Second Deck, amidships, Angle, <i>E or F</i> | | |
| " " " " Through Plate or Inter-costal Plate | | | Spacing | | |
| " " " " Foundation Plate on Floors | | | Third Deck, amidships, Angle, <i>E or F</i> | | |
| " " " " Flat Plate Keel Angles | | | Spacing | | |
| Side Keelsons, No. each side..... | <i>ONE</i> | | Fourth Deck, amidships, Angle, <i>E or F</i> | | |
| " " thickness of Inter-costal Plate... | ✓ | | Spacing | | |
| " " Angles (in boiler room) <i>IL</i> | 6 1/2 3 50 | ✓ | Poop Deck, Angle, <i>E or F</i> | | |
| DOUBLE BOTTOM. | | | Spacing | | |
| Solid Floors, thickness and spacing | | | Bridge Deck, Angle, <i>E or F</i> | | |
| " " Are Frame and Reversed Frame joggled? | | | Spacing | | |
| Bracket Floors, breadth and thickness at middle line | | | Forecastle Deck, Angle, <i>E or F</i> | | |
| " " breadth and thickness at margin plate..... | | | Spacing | | |

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 | ONE | ✓ | Stringer Plate, breadth and thickness in way of Bridge | | |
| " " FORWARD ACCOMMODATION in 'tween Decks, Size and Spacing | 2 3/8" DIAP. | ? ↑ ↓ | Thickness of Plating abreast Deck openings in way of Wells | | |
| " " " " " " | SP. 42" APART. | ↓ | Thickness of Plating abreast Deck openings in way of Bridge..... | | |
| " " " " " " | ✓ | | Thickness of Plating within line of openings... | | |
| " " " " " " | ✓ | | If Sheathed, material and thickness..... | | |
| Centre Line Bulkhead. Stiffeners and Spacing | ✓ | | Third Deck. Stringer Plate, breadth and thickness..... | | |
| Plating, thickness of | ✓ | | If Plated, state thickness | | |
| STRINGERS AND DECKS. | | | Fourth Deck. Stringer Plate, breadth and thickness..... | | |
| Uppermost Continuous Deck. | | | If Plated, state thickness..... | | |
| Stringer Plate, breadth and thickness in Wells | 6 1/2 x 36" | ✓ | Fifth Deck. Stringer Plate, breadth and thickness..... | | |
| " " " " " in way of Bridge | ✓ | | If Plated, state thickness..... | | |
| " Angle in Wells | 4 x 3 x .40 | ✓ | Sixth Deck. Stringer Plate, breadth and thickness..... | | |
| Thickness of Plating abreast Deck openings } in way of Wells | .36 | ✓ | Plating, Sheathing, material and thickness ... | | |
| Thickness of Plating abreast Deck openings } in way of Bridge..... | ✓ | | Seventh Deck. Stringer Plate, breadth and thickness..... | | |
| Thickness of Plating within line of openings... IN WAY OF ACCOMMODATION - | .30 | ✓ | Plating, Sheathing, material and thickness ... | | |
| If Sheathed, material and thickness..... | 5 x 2 1/2" D. FR. | ✓ | Eighth Deck. Stringer Plate, breadth and thickness..... | | |
| Second Deck. Stringer Plate, breadth and thickness in Wells | ✓ | | Plating, Sheathing, material and thickness... | | |

SHELL PLATING.

[illegible]

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c).....4. ✓

„ Deck next below.....✓

As per Rule.....3 ✓

FORGINGS AND CASTINGS.

| | Casting or Forging. | Scantlings. | Maker's Name. | Any Departure from Approved Plans to be Noted. |
|---------------------------|---------------------|------------------------------------|------------------------------------|--|
| KEEL, Bar | BULB. | $7\frac{1}{2} \times 1\frac{1}{8}$ | CONSETT | IRON CO. LD. |
| STEM | " | $7\frac{1}{2} \times 1\frac{1}{8}$ | " | " |
| STERN FRAME { | Propeller Post | FORGING | $7\frac{1}{2} \times 3\frac{3}{4}$ | T. S. FORSTER & SONS LTD |
| { | Rudder | " | $7\frac{1}{2} \times 3\frac{3}{4}$ | " |
| Speed of Vessel | | UNDER 12 KNOTS. | ✓ | |
| RUDDER—Type | | DOUBLE PLATE. | ✓ | |
| " A × D. | | 11 × 9 | ✓ | |
| " Diam. of head | FORGING | 6" | T. S. FORSTER & SONS LTD | |
| " Mainpiece at top pintle | " | $7\frac{1}{2} \times 4"$ | ✓ | " |
| " " heel ... | " | $3\frac{3}{4} \times 4"$ | ✓ | " |
| " how constructed | | FORGED & BUILT. | ✓ | |
| " double or single plate | | DOUBLE PLATE. | ✓ | |
| " coupling, vertical or | | NONE. | ✓ | |
| " horizontal | | | | |

| | | Plating Thickness. | STIFFENERS. | | | |
|--|---|------------------------|-------------|--------------------------|---|----------|
| | | | VERTICAL. | | HORIZONTAL. | |
| | | | Scantlings. | Spacing. | Scantlings. | Spacing. |
| MIDSHIP BULKH'D, Upper 'tween decks | | | | | | |
| " | " | Second | " ✓ 12 35- | 4" x 3" 30Γ | 30" ✓ | |
| " | " | Third | " ✓ 13 26✓ | 4 x 3 30Γ | 30" ✓ | |
| " | " | Holds | ✓ 43 35- 26 | 5" x 3" 30Γ 4 x 3 30Γ | 24" IN WAY OF FEED TANK 30" ABOVE FEED TANK. | |
| COLLISION | | " (in Hold) | ✓ 57 35- 26 | 5" x 3" 30Γ 3 x 3 30Γ | 24" ✓ | |
| AFTER PEAK | | " | ✓ 6 50 | 4 x 3 30Γ | 24" ✓ | |
| | | " | ✓ 4 30- 26 | 4 x 3 30Γ | 24" ✓ | |

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) OPEN HEARTH PROCESS.
PLATES:- DORMAN, LONG & CO. LD. APPLEBY-FRODINGHAM STEEL CO. LD. CONSETT IRON CO. LD.
SECTIONS:- " " " " " " " " " " " " SKINNINGGROVE IRON CO. LD.
Has the Steel been tested as required by the Rules? Yes. ✓ CARGO FLEET IRON CO. LD.

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 dealing with a sister vessel under construction.

The following forging reports are enclosed:—

Stem frame
Rudder frame & rudder head
Mld Rpt. No 5147 ✓
" " " 6526 ✓

PARTICULARS OF ELECTRIC WELDING (if employed)

Boiler feed tank top and watertight flats welded to shell. ✓

Approved electrodes used on this work. ✓

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

* 100 A-1.

FOR TOWING SERVICES. ✓

Lited for oil fuel 5, 46, FP above 150°F.

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

| | | | | |
|-----------|---------------------|--------|------|----------|
| 1st Bower | 4-1-13 incl. pins ✓ | A.E.G. | 5456 | 4-6-45 |
| 2nd " | 4-0-4 " " ✓ | A.E.G. | 2212 | 12-10-44 |
| 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. 180857. Signal Letters. ✓ Extreme Breadth over Belting (Circ. 1611) 27-9 ft. Over-all Length (Circ. 1703) 118-25 ft. ✓

No. and Material of Decks 1 DK (SM)

Parts of Bottom of Vessel coated with cement or approved composition. Bottom coated with cement. ✓

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, | | |
| Double bottom, under Engines and Boilers, | | | After peak tank, | | 19 ✓ |
| Double bottom, if under Engines only, | | | Deep tank, aft, | | 15 1/2 ✓ |
| Double bottom, if under Boilers only, | | | Deep tank, forward, Boiler feed tank | 70 ✓ | 19 ✓ |
| 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. 3475

Date 7th March 1945

Dates of Surveys held while building

1945:— Sept. 18. 20. 26 Oct. 2. 8. 10. 26. 31. Nov. 8. 16. 21. 23. 30. Dec. 7. 14. 21.
1946:— Jan. 1. 5. 9. 11. 16. 18. 23. 25. 30. Feb. 13. 18. 22. 27. Mar. 5. 8. 12. 20. 21.
April 8. 9. 10. 11. 15. 18. 24. 26. May 2.

Total No. of Visits 43