

STEEL STEAMER or MOTORSHIP.

26 SEP 1936

Received at London Office

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 *23 September 1936* Port of *Leith* No. *19180*
Survey held at *Burntisland* Date First Survey *22nd February 1936* Last Survey *22nd September 1936*
On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) *Steel single screw steamer "NORTHWOOD" (Machinery aft)*
State Type (Full Scantling, Complete Superstructure with or without Tonnage Opening) *without tonnage opening* State Type of Erections *RQD¹⁴ Focli*

TONNAGE under Tonnage Deck... *776.78* CLASS *T100A1* State if with freeboard as condition of Class *yes* Built at *Burntisland*
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) *1214.5* Launched *3rd September 1936* Yard No. *202*
Total *776.78* Breadth (greatest moulded) *B 33.83* Builders *The Burntisland S.B.C. Ltd*
Gross Tonnage *1146.37* Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 16.5 (+ 4.5 RQD¹⁴)* Owners *Joseph Constantin S.S. Line Ltd*
Register Tonnage *652.47* 1st Longitudinal Number (L x D) *3539.5* Managers *✓*
2nd Numeral L x (B + D) *10796* (Where necessary to be entered in Reg. Book.)

REGISTERED DIMENSIONS. FEET.

Length *217.4*
Breadth *34.0*
Depth *13.65*

Framing Depth "d," at middle of length. See Sec. 3 (1d) *✓*
Proportions—Depth to Length—Uppermost continuous deck to top of keel *13.0 UD¹⁴ 10.21 RQD¹⁴*
Do. Long Bridge to top of keel *✓*
Draught Moulded (Centre of axis to keel) *15.1" (+ 1 1/2" to bottom of keel)*

Residence *Middlesbrough*

Port of Registry *Middlesbrough*

If surveyed while building, afloat, or in dry dock *while building*

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. |
|--|---|--|--|--|--|
| AMES, Spacing amidships | <i>24</i> | <i>✓</i> | Bracket Floors, Frame | | |
| " " from 3/8 length to Collision bulkhead | <i>24</i> | <i>✓</i> | " " Reversed Frame | | |
| " " in peaks <i>in Fore Peaks</i> | <i>24</i> | <i>✓</i> | " " Vertical Struts | | |
| <i>in After Peak</i> | <i>23</i> | <i>✓</i> | Centre Girder, depth and thickness amidships | <i>40</i> | <i>.36 approved .35</i> |
| E FRAMING. | | | " " top Angles | <i>3</i> | <i>3 .36 .35</i> |
| Frame Amidships, Angle, <i>E or F</i> | <i>7</i> | <i>3 .35 approved .36</i> | " " bottom Angles | <i>3</i> | <i>3 .40 .39</i> |
| " " Extends up to | <i>duct</i> | <i>✓</i> | Side Girders, No. each side and thickness | <i>one</i> | <i>.28</i> |
| Reversed Frame Amidships, Angle | <i>✓</i> | <i>✓</i> | Margin Plate depth (excl. of flange) and thickness | <i>27 1/2</i> | <i>.36</i> |
| " " Extends up to | | | " " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem | <i>3</i> | <i>3 .35 at RQD¹⁴ "Upper II"</i> |
| Depth of Framing Girder | <i>7</i> | <i>✓</i> | " " Vertical Angle to Tank side Bracket forward 1/4 len. from stem | <i>5</i> | <i>5 .33</i> |
| Frames in Uppermost Continuous 'tween Decks, Angle, <i>E or F</i> | | | " " Gussets, spacing and scantling abaft 1/4 len. from stem | <i>3 x 3 x 30 L</i> | <i>every frame</i> |
| " " Second 'tween Decks, Angle, <i>E or F</i> | | | " " Gussets, spacing and scantling forward 1/4 len. from stem | <i>3 x 3 x 30 L</i> | <i>every frame</i> |
| " " Third " " " " | | | Tank Side Brackets, height above base line at toe of Frame and thickness | <i>4.2" .35 RQD¹⁴ 4.0" .33 Under D¹⁴</i> | |
| Framing in Peaks, Angle, <i>E or F</i> | <i>5</i> | <i>3 .35 closed up at turn of bilge</i> | INNER BOTTOM PLATING. | | |
| Diameter and Spacing of Rivets through Frame and Shell Plating amidships | <i>3/4 5 1/4 apart c/c.</i> | <i>✓</i> | Breadth and thickness of Middle Line Strake | <i>41</i> | <i>to .39 .36</i> |
| State if Frame Joggled | <i>yes</i> | <i>✓</i> | Thickness of remainder in Holds | <i>.32</i> | <i>to .31</i> |
| FRAMING ARRANGEMENTS (Sec. 7), state system and particulars | <i>Frames 8 x 3 x .39 E Two timber face bars. Shell plating .44</i> | <i>✓</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? | <i>yes</i> | <i>✓</i> |
| STRENGTHENING OF BOTTOM FORWARD. State Particulars | <i>Intermediate frames 5 x 3 x .30 one full height and two 1/2 height girders each side</i> | <i>✓</i> | BEAMS. | | |
| DOUBLE BOTTOM. IN WAY OF E & B spaces, as per profile rough plan | | | Uppermost Continuous Deck, amidships | <i>1/2 beams</i> | |
| Floors, Depth and thickness at mid-line in Holds | | | " " in Wells, Angle, <i>E or F</i> | <i>3 1/2 x 3 x .30</i> | <i>.36 in way of Main Deck platform</i> |
| Height of Brackets at side above base line at toe of frame | <i>✓</i> | <i>✓</i> | " " in way of Bridge, Angle, <i>E or F</i> | | |
| Middle Line Keelson, on Floors, Angles, <i>E or F</i> | | | Spacing | <i>every frame</i> | <i>✓</i> |
| " " Through Plate or Intercoastal Plate | <i>✓</i> | <i>✓</i> | Second Deck, amidships, Angle, <i>E or F</i> | | |
| " " Foundation Plate on Floors | <i>✓</i> | <i>✓</i> | Spacing | | |
| " " Flat Plate Keel Angles | | | Third Deck, amidships, Angle, <i>E or F</i> | | |
| Side Keelsons, No. each side | | | Spacing | | |
| " " thickness of Intercoastal Plate | <i>✓</i> | <i>✓</i> | Fourth Deck, amidships, Angle, <i>E or F</i> | | |
| " " Angles | | | Spacing | | |
| DOUBLE BOTTOM. | | | Poop Deck, Angle, <i>E or F</i> | | |
| Solid Floors, thickness and spacing | <i>.30 every frame</i> | <i>✓</i> | Spacing | | |
| " " Are Frame and Reversed Frame joggled? | <i>yes</i> | <i>✓</i> | Bridge Deck, Angle, <i>E or F</i> | | |
| Bracket Floors, breadth and thickness at middle line | <i>✓</i> | <i>✓</i> | Spacing | | |
| " " breadth and thickness at margin plate | <i>✓</i> | <i>✓</i> | Forecastle Deck, Angle, <i>E or F</i> | <i>5</i> | <i>3 .35 .36</i> |
| | | | Spacing | <i>every frame</i> | <i>✓</i> |

PILLARS AND DECKS.

[illegible]

SHELL PLATING.

| SCANTLINGS. | | | | | RIVETING. | | | | | | | |
|---|---------------------|-----------------------|-----------------------|-----------------------|--|---------------------------------------|------------------|----------------------------------|------------------------|------------------|----------------------------------|---------------------|
| STRAKES. | AS IN VESSEL. | | | | ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED. | EDGES. State if joggled? <i>no</i> | | | BUTTS. | | | |
| | AMIDSHIPS. | | FORWARD. | AFT. | | SINGLE OR DOUBLE. | RIVETS. | | No. OF ROWS OF RIVETS. | RIVETS. | | STRAPPED OR LAPPED. |
| | Breadth. Inches. | Thickness. Inches. | Thickness. Inches. | Thickness. Inches. | | | Diam. Inches. | Spacing cr. to cr. Inches. | | Diam. Inches. | Spacing cr. to cr. Inches. | |
| FLAT PLATE KEEL | <i>41</i> | <i>.50</i> | <i>.46</i> | <i>.46</i> | | <i>Double</i> | <i>3/4</i> | <i>3</i> | <i>Tubed</i> | <i>3/4</i> | <i>2 5/8</i> | <i>Lapped</i> |
| „ DBLG. (if any) | | | | | | | | | | | | |
| BOTTOM PLATING, No. of Strakes <i>2</i> | <i>A 70 1/4</i> | <i>.45</i> | <i>.51 1/2</i> | <i>.38</i> | | <i>"</i> | <i>"</i> | <i>"</i> | <i>T 15 D</i> | <i>"</i> | <i>"</i> | <i>"</i> |
| BILGE PLATING, No. of Strakes | <i>B 70 1/4</i> | <i>.45</i> | <i>.50 1/2</i> | <i>.40</i> | | <i>"</i> | <i>"</i> | <i>"</i> | <i>"</i> | <i>"</i> | <i>"</i> | <i>"</i> |
| SIDE PLATING, No. of Strakes | <i>C 63 3/4</i> | <i>.45</i> | <i>.45</i> | <i>.40</i> | | <i>"</i> | <i>"</i> | <i>"</i> | <i>D Double</i> | <i>"</i> | <i>"</i> | <i>"</i> |
| UPPER DECK, Sheer-strake in Wells | <i>D 64</i> | <i>.41</i> | <i>.37</i> | <i>.37</i> | | <i>"</i> | <i>"</i> | <i>"</i> | <i>E T 6 D</i> | <i>"</i> | <i>"</i> | <i>"</i> |
| UPPER DECK, Sheer-strake in Bridge ... | <i>F 68</i> | <i>.52</i> | <i>.37</i> | <i>-</i> | | <i>"</i> | <i>"</i> | <i>"</i> | <i>"</i> | <i>"</i> | <i>"</i> | <i>"</i> |
| STRAKE BELOW Sheer-strake in Wells | <i>E 69 1/2</i> | <i>.41</i> | <i>.37</i> | <i>-</i> | | <i>"</i> | <i>"</i> | <i>"</i> | <i>Double</i> | <i>"</i> | <i>"</i> | <i>"</i> |
| STRAKE BELOW Sheer-strake in Bridge ... | | | | | | | | | | | | |
| POOP SIDE PLATING | | | | | | | | | | | | |
| BRIDGE SIDE PLATING ... | | | | | | | | | | | | |
| FOREC'TLE SIDE PLATING | | | <i>.30</i> | | | <i>Single</i> | <i>"</i> | <i>"</i> | <i>Single</i> | <i>"</i> | <i>"</i> | <i>"</i> |

WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c) 3

„ 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 | ✓ | | | |
| STEM | rolled bar | 6" x 1 1/2" | | |
| STERN FRAME { | Propeller Post | 7" x 4 1/2" | Vitmer's | minus |
| | Rudder " | 7" x 4 1/2" | Heel | section C. |
| Speed of Vessel | | 10 Knots | | |
| RUDDER—Type | Ordinary forged | T. S. Foster | 1/2 | |
| " A x D | | 130 | | |
| " Diam. of head | | Section as per plan | | |
| " Mainpiece at top pintle | | 5 1/4" x 4 1/2" | | |
| " " heel ... | | 4 1/4" x 3" | | |
| " how constructed | | Main piece 4 arms in one piece | | |
| " double or single plate | | double | | |
| " coupling, vertical or | | horizontal | | |
| " horizontal | | horizontal | | |

STIFFENERS.

| | | Plating Thickness. | STIFFENERS. | | | |
|------------------------------------|-----------|--------------------|-------------|--------------------------------|-------------|-------------------------|
| | | | VERTICAL. | | HORIZONTAL. | |
| | | | Scantlings. | Spacing. | Scantlings. | Spacing. |
| MIDSHIP BULKH'D, Upper tween decks | | | | | | |
| " | " | Second | " | | | |
| " | " | Third | " | | | |
| Frame No | Holds | 27 | 41 | 28 5 1/2 x 3 x 36 P | 30 3/4 | Keelson on top of No 27 |
| COLLISION | (in Hold) | 95 | 40 | 26 8 x 3 x 4 P gas for beam | 24 | 4 x 3 x 40 |
| AFTER PEAK | | 5 | 64 | 30 8 x 3 x 42 P | 24 | gas for beam |

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Consett Iron Co. Colvilles & Co. Dorman Long & Co. Whimpering Iron Co. The Steel Co. of Scotland*

Scottish Iron & Steel Co. Cargo Fleet Iron Co. Lanarkshire Steel Works. (OH)

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

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.)

Machinery & boiler being installed at that port.
This survey is now completed with exception of final examination of casings aft, and of the steering gear and windlars under working conditions. The Sunderland Surveyors have been advised accordingly.

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

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

1st Bower
2nd "
3rd "

15-1-27 WH. 5724. 12-6-36
15-1-25 WH. 5726. 12-6-36
12-2-17 WH. 5727. 12-6-36

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. 150 ft., Bridge ☒ ft., Forecastle 27 ft.
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

No. and Material of Decks

one steel

Official No.

Signal Letters

Is bottom of vessel coated with cement ☒ yes in way of D.B. if not give

particulars of composition Tanks and machinery space. Deterministic solution in way of boiler space

PARTICULARS OF WATER BALLAST.—

| Where Fitted. | Length. Feet. | Water Capacity. Tons. | Where Fitted. | Length. Feet. | Water Capacity. Tons. |
|---|---------------------------------|--------------------------|--|------------------|--------------------------|
| Double bottom, aft, | | | Fore peak tank, | 24.5 | 90 |
| Double bottom, under Engines and Boilers, | | | After peak tank, | 18.5 | 69 |
| Double bottom, if under Engines only, | | | Deep tank, aft, | | |
| Double bottom, if under Boilers only, No 1 Tank | 52 | 115 | Deep tank, forward, | | |
| Double bottom, forward, No 2 Tank | 92 | 235 | Other tanks, if fitted, | | |
| | Total capacity of double bottom | 350 | (If necessary, furnish further information by sketch.) | | |

* The wells are not to be included in the lengths of the tanks (See Circular No. 1284).

Order for Special Survey No. 1256

Date

20/3/36

Dates of Surveys held while building

1936.

Feb 22, May 19, June 2, 9, 16, 19, 23, 26
July 7, 28, 31. Aug 4, 11, 14, 18, 21, 25, 28.
Sept. 1, 3, 8, 11, 15, 22.

Total No. of Visits 24