

## STEEL STEAMER or MOTORSHIP.

Received at London Office 9 NOV 1945

State if Report has been sent on the Freeboard of the Vessel *Yh*State if Report is sent on the Machinery of the Vessel *Yh*

Date of completion of report 3rd NOVEMBER 1945.

Port of GLASGOW.

Survey held at GLASGOW.

Date First Survey 13th APRIL 1943

Last Survey 18th OCTOBER 1945

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

SINGLE SCREW "TAPTI."

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

COMPLETE SUPERSTRUCTURE WITHOUT TONNAGE OPENING.

State Type of Erections FORECASTLE.

TONNAGE under Tonnage Deck... 6129.94.

CLASS  $\pm 100$  A.I.

State if with freeboard as condition of Class

WITH FREEBOARD Built at

SCOTSTOWN, GLASGOW.

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 410.0

Launched 8th JUNE 1945

Yard No. 448.

Breadth (greatest moulded)

B 55.0

Builders MESSRS CHARLES CONNELL &amp; CO. LD.

Total 6129.94.

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)

D 37.0 (ACTUAL)

36.75 (FOR NUMERALS)

JAMES NOURSE, LD.

Gross Tonnage 6617.61.

Register Tonnage 4351.89.

1st Longitudinal Number  $(L \times D) (410 \times 36.75) = 15068$ 

Managers

(Where necessary to be entered in Reg. Book.)

2nd Numeral  $L \times (B + D) 410.0 \times (55.0 + 36.75) = 37618$ 

Residence 122, LEADENHALL STREET, LONDON, E.C.3.

## REGISTERED DIMENSIONS. FEET.

Length 415.6.

Breadth 55.25.

Depth 33.9.

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

22.96

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

11.08

Port of Registry LONDON.

If surveyed while building, afloat, or in dry dock

Brought Moulded

27'-1"

BUILDING, AFLOAT AND IN DRYDOCK.

## 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.
<b>FRAMES, Spacing amidships</b>	31		<b>Bracket Floors, Frame</b>	6 3/4 .44	B.A. ✓
" " from 1/2 length amidships to Collision bulkhead	27		" " Reversed Frame	5 1/2 3 .44	B.A. ✓
" " in peaks	24		" " Vertical Struts	8 x 3 1/2 x 3 1/2 .42	Chan. ✓
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>	50 1/2 x .49	
Frame Amidships, Angle, E or F	12 3 1/2 .56	Upper Deck on alternate frames	" " top Angles	3 1/2 3 1/2 .48	Dble. ✓
" " Extends up to			" " bottom Angles	4 4 .54	Dble. ✓
Reversed Frame Amidships, Angle			<b>Side Girders, No. each side and thickness</b>	One .36	
" " Extends up to			<b>Margin Plate depth (excl. of flange) and thickness</b>	49 x .54	
Depth of Framing Girder			" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	3 1/2 3 1/2 .44	Single ✓
Frames in Uppermost Continuous Decks, Angle, E or F	12 3 1/2 .56	on alternate frames	" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area	6 6 .50	Single ✓
" " Second tween Decks, Angle, E or F			Gussets, spacing and scantling abaft 1/2 len. from stem	Continuous gusset 1'-2" x .40 clear of oil fuel. 11'-7 1/2" x .40 in way of oil fuel.	
" " Third			" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	Continuous gusset 1'-7 1/2" x .40	
" " from 1/2 len. for'd. to 15% len. from Stem	12 x 4 x 4 .64	✓	<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>	7'-0" x .44	
" " in Peaks, Angle, E or F	8 3 1/2 .35	✓	<b>INNER BOTTOM PLATING.</b>		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/8 dia. rivets spaced equivalent to 5/8" to suit multiple purling.	✓	Breadth and thickness of Middle Line Strake	79 3/4 x .50	
State if Frame Joggled	Yes	✓	Thickness of remainder in Holds	44 (increased in way of hatches in lieu of ceiling) Yes.	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	Do approved	✓	Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E, B, space and framing in Bankers and Boiler Room?		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Do approved	✓	<b>BEAMS.</b>		
<b>SINGLE BOTTOM.</b>			Uppermost Continuous Deck, amidships in Wells, Angle, E or F	8 3 1/2 .48	✓
Floors, Depth and thickness at mid-line in Holds			" " In way of Bridge, Angle, E or F		
Height of Brackets at side above base line at toe of frame			Spacing	Every frame	✓
Middle Line Keelson, on Floors, Angles, E or F			Second Deck, amidships, Angle, E or F	9 3 1/2 .40	✓
" " Through Plate or Intercoastal Plate			Spacing	Every frame	✓
" " Foundation Plate on Floors			Third Deck, amidships, Angle, E or F		
" " Flat Plate Keel Angles			Spacing		
Side Keelsons, No. each side			Fourth Deck, amidships, Angle, E or F		
" " thickness of Intercoastal Plate			Spacing		
" " Angles			Poop Deck, Angle, E or F		
<b>DOUBLE BOTTOM.</b>			Spacing		
Solid Floors, thickness and spacing	40" on every 4th frame	✓	Bridge Deck, Angle, E or F		
" " Are Frame and Reversed Frame joggled?	Yes	✓	Spacing		
Bracket Floors, breadth and thickness at middle line	2'-8 1/2" x .40	✓	Forecastle Deck, Angle, E or F		
" " breadth and thickness at margin plate	2'-8 1/2" x .40	✓	Spacing	10 x 3 1/2 x 3/8 and as approved. Alternate frames.	



# 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.
<b>PILLARS</b> , No. of Rows.....	Two ✓		Stringer Plate, breadth and thickness in way of Bridge.....		
„ in 'tween Decks, Size and Spacing.....	Wide spaced pillars and deep girders in holds and 'tween decks as per approved plans		Thickness of Plating abreast Deck openings in way of Wells.....	36 ✓	
„ „ „ „ „			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.....	Unsheathed ✓	
<b>Centre Line Bulkhead</b>			<b>Third Deck.</b>		
Stiffeners and Spacing.....			Stringer Plate, breadth and thickness.....		
Plating thickness of.....			If Plated, state thickness.....		
<b>STRINGERS AND DECKS.</b>			<b>Fourth Deck.</b>		
<b>Uppermost Continuous Deck.</b>			Stringer Plate, breadth and thickness.....		
Stringer Plate, breadth and thickness in Wells.....	64 x 67 ✓	Approved 62"	If Plated, state thickness.....		
„ „ „ in way of Bridge.....			<b>Pop Deck.</b>		
„ Angle in Wells.....	6 6 ✓	62	Stringer Plate, breadth and thickness.....		
Thickness of Plating abreast Deck openings in way of Wells.....	62 ✓	Approved 54"	Plating, Sheathing, material and thickness.....		
Thickness of Plating abreast Deck openings in way of Bridge.....			<b>Bridge Deck.</b>		
Thickness of Plating within line of openings.....	40 ✓	1.75	Stringer Plate, breadth and thickness.....		
If Sheathed, material and thickness.....	Unsheathed ✓		Plating, Sheathing, material and thickness.....		
<b>Second Deck.</b>			<b>Forecastle Deck.</b>		
Stringer Plate, breadth and thickness in Wells.....	57 x 40 ✓		Stringer Plate, breadth and thickness.....	36 ✓	
			Plating, Sheathing, material and thickness.....	34 Unsheathed ✓	

## SHELL PLATING.

SCANTLINGS.				RIVETING.			
AS IN VESSEL.				UPPER EDGES.			
STRAKES.				State if jogged? NO ✓			
AMIDSHIPS.	FORWARD.	AFT.	ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	SINGLE OR DOUBLE.	RIVETS.	No. OF ROWS OF RIVETS.	BUTTS.
Breadth. Thickness.	Thickness.	Thickness.			Diam. Spacing cr. to cr.		RIVETS. Spacing cr. to cr. STRAPPED OR LAPPED.
Inches. Inches.	Inches. Inches.	Inches. Inches.			Inches. Inches.		Inches. Inches.
FLAT PLATE KEEL.....	62 ✓	80 ✓	70 ✓	Double ✓	3/8 3/8 ✓	4-3 ✓	1 3/8 Lapped ✓
„ „ „ „ „							
BOTTOM PLATING, No. of Strakes.....	63 ✓	50 ✓	50 ✓	Double ✓	7/8 3/8 ✓	4-3 ✓	7/8 3 1/2-3 1/2 Lapped ✓
BILGE PLATING, No. of Strakes.....	63 ✓	50 ✓	50 ✓	Double ✓	7/8 3/8 ✓	4-3 ✓	7/8 3 1/2-3 1/2 Lapped ✓
SIDE PLATING, No. of Strakes.....	62 ✓	45 ✓	45 ✓	Double ✓	7/8 3/8 ✓	3 ✓	7/8 3 1/2 Lapped ✓
UPPER DECK, Sheer-strake in Wells.....	70 1/2 ✓	72 ✓	46 ✓			4-3 ✓	7/8 3 1/2-3 1/2 Lapped ✓
UPPER DECK, Sheer-strake in Bridge.....							
STRAKE BELOW Sheer-strake in Wells.....	74 1/2 ✓	66 ✓	46 ✓	Double ✓	7/8 3/8 ✓	4-3 ✓	7/8 3 1/2-3 1/2 Lapped ✓
STRAKE BELOW Sheer-strake in Bridge.....							
POOP SIDE PLATING.....							
BRIDGE SIDE PLATING.....							
FORECASTLE SIDE PLATING.....			40 ✓	Single ✓	3/4 3 ✓	1 ✓	3/4 2 1/2 Lapped ✓

## WATERTIGHT BULKHEADS.

<b>Total No. of W.T. BULKHEADS in Vessel</b> —7	<b>NOTATION</b>
Extending to Upper Deck (Sec. 3 c) 1	Call to U.Dk. 6 to 2nd Dk. ✓
„ Deck next below 6	6 divisional W.T. bulkheads in 'tween Decks.
As per Rule 7	Divisional W.T. bulkheads No. 17 and 59/61 in the 'tween decks are not set.
	Divisional W.T. bulkheads No. 38, 75/85, 101 and 123 in the 'tween decks have openings closed by means of riveted plates.

## STIFFENERS.

	Plating Thickness.	VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
<b>MIDSHIP BULKH'D</b> , Upper 'tween decks	3/8 75/85 ✓	5 x 3 ✓	32" 0A 28" 30" ✓		
„ „ Second „					
„ „ Third „					
„ „ Holds.....	3/8 77 ✓	39" 30" ✓	12" 3 1/2" 45" 30" ✓		
<b>COLLISION</b> „ (in Hold)	3/8 155 ✓	47" 29" ✓	10" 3 1/2" 50" 30" 12" 3 1/2" 50" 30" ✓	W.T. flat and 2 semi-braces	6'-0" to 12'-0"
<b>AFTER PEAK</b> „	3/8 136 ✓	43" 34" ✓	12" 3 1/2" 45" 30" 12" 3 1/2" 50" 30" ✓	None	10'-0" to 12'-0"

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
<b>KEEL, Bar</b> .....				
<b>STEM</b> .....	Roller Steel	10" x 2 1/2" ✓		
<b>STERN FRAME</b> { Propeller Post.....	Castings	As approved	The Steel Company of Scotland.	
{ Rudder „.....		As approved		
<b>Speed of Vessel</b> .....		12 K. ✓		
<b>RUDDER—Type</b> .....		Ordinary single plate		
„ A x D (107 x 4.4).....		470 8		
„ Diam. of head.....	Forging	10 1/2" ✓	The Wile Forge Co. Ltd.	
„ Mainpiece at top pintle.....	Forging	10 1/2" ✓		
„ „ heel.....		8" ✓		
„ how constructed.....		Drawn shrunk on and keyed to mainpiece.		
„ double or single plate.....		Single plate 1-10" thick		
„ coupling, vertical or horizontal.....		Horizontal		

<b>STEEL.</b>	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)			
	Dorman Long and Co. Ltd.	Appley, Tinsley and Steel Co. Ltd.	South Durham Steel and Iron Co. Ltd.	Cochran & Co. Ltd.
	Bairds and Scottish Steel Ltd.	The Steel Company of Scotland, Ltd.	The Lanarkshire Steel Co. Ltd.	Camp Steel Iron Co. Ltd.
	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.)

The following plans are applicable to this vessel and are forwarded herewith:—

The following Taring and Casting Reports are forwarded herewith:—

Midship Section.  
Profile and Decks.  
Engine Seating.  
Cruiser Stern Framing.  
Alterations to Horse Peak.  
Deep Water Ballast Tanks.  
General Pumping Arrangements.  
Stempost.  
Rudder.  
Alternative Plan of Pintles.  
Cruiser Stern Casting.  
Emergency Steering Tackle.  
Houses Amidships.  
After Deckhouse.  
Boat Deck and Side Houses.  
Second Deck Brinders in way of Hatches.

Stemframes and Contour Piece.  
Rudder.  
Rudder Stock.  
Quadrant.  
Miller.

Copy of capacity plans received from Owners 30.3.50

Plan of "as fitted" Midship Section forwarded in advance.

This vessel is a sister ship to the M.V. "HUGHLI" built by Messrs Chas. Connell and Co. Ltd., see Glasgow Report N° 67373 dated 30th July 1943 and also the M.V. "MEGNA" built by the same Builders, see Glasgow Report N° 58172 dated 8th March 1944.

PARTICULARS OF ELECTRIC WELDING (if employed) Stringer plate checks at Second Deck; W.I. bulkhead stiffeners to inner bottom; heads and heels of hold and tween deck pillars; tunnel side plating to inner bottom; tunnel stiffeners; auxiliary engine seats; deck girder tripping brackets; W.I. flat in N° 5 Hold to shell and bulkhead; horizontal girder in forward side ballast tanks and other minor details.

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

Cruiser Stern. Lloyd's A and C.P. Oil Engine. With Lubeboard. Echo Sounding. Direction Indicator. See Page 2 for notation re tween deck bulkheads.

Special Reasons List:—Cargo battens to be fitted at the first opportunity in holds and tween decks (1 lower anchor to be supplied at the conclusion of the present emergency).

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower 45.2.12 : J.H.J. : 6190 : 31.3.44 2nd " 44.0.24 : J.H.J. : 6234 : 3.5.44 3rd " 19.0.26 : J.H.J. : 6053 : 7.1.44 (RODGERS TYPE STOCKED ANCHOR).
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PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop — ft., R.Q.D. — ft., Bridge — ft., Forecastle 33.0 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.E., this should be distinctly stated.

Official No. 180679 Signal Letters Extreme Breadth over Belting (Circ. 1611) Over-all Length 431.9'.

No. and Material of Decks Two. Steel. Parts of Bottom of Vessel coated with cement or approved composition Portland cement in fore and after peak tanks, double bottom feed water tanks and double bottom cofferdams; elsewhere bottom cement washed, except in way of oil fuel tanks where it is uncoated.

Particulars of composition (if fitted) and of approval

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Cir. 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.
	Feet.	Tons S.W.		Feet.	Tons S.W.
Double bottom, aft,	108.5	318	Fore peak tank,	25.0	208
Double bottom, under Engines and Boilers,	2.2		After peak tank,	22.0	260
Double bottom, if under Engines only,	28.8	70	Deep tank, aft, Side ballast tanks abreast tunnel	62.0	430
Double bottom, if under Boilers only,	12.9		Deep tank, forward, Side ballast tanks forward	19.7	427
Double bottom, forward,	195.4	825	Other tanks, if fitted.		
Total length (if continuous) and Capacity	350.8	1213	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 6685

Date 14.12.42

Dates of Surveys held while building

1943 Apr 13 Aug 3. 4 1944 Apr 26 May 16 Jun 8. 16. 27 Jul 5. 28 31 Aug 9. 21. 24 Sep 5. 7. 28 Oct 10 Nov 6. 14 Dec 6. 11. 13. 14. 22. 29 1945 Jan 5. 10. 11. 15. 19. 22. 23. 29. 31 Feb 2. 6. 8. 12. 13. 16. 19. 20. 23. 28 Mar 7. 12. 20. 23. 26. 28. 30 Apr 4. 5. 9. 13. 16. 18. 19. 23. 25. 27 May 2. 3. 7. 12. 14. 15. 17. 19. 24. 25. 29. 31 Jun 2. 4. 6. 8. 19. 22 Aug 6. 9. 23 Sep 1. 3. 6. 20. 21. 26. 27 Oct 2. 18

Total No. of Visits 91