

STEEL STEAMER or MOTORSHIP.

Received at London Office 14 NOV 1928

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

8th Nov. 1928.

Port of GREENOCK.

No. 18944.

Survey held at GREENOCK.

Date First Survey 4th November 1924

Last Survey 4th November

1928.

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

NO SINGLE SCREW.

"BEHAR"

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

COMPLETE SUPERSTRUCTURE WITH TONNAGE OPENING.

State Type of Erections FORECASTLE ON SHELTER DK.

TONNAGE under Tonnage Deck

5496.38.

CLASS 100 A.I.

State if with freeboard as condition of Class ☒ YES.

Built at GREENOCK.

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 435.0.

Breadth (greatest moulded) B 57.33.

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 40.25.

1st Longitudinal Number (L x D) = 17508.75

2nd Numeral L x (B + D) = 42447.3.

Framing Depth "d" at middle of length. See Sec. 3 (1d) 17.958.

Proportions—Depth to Length—Uppermost continuous deck to top of keel 10.67.
Do. Long Bridge to top of keel ☒Draught Moulded 27' 6 1/4" ☒ YES.

Launched 16th AUG. 1928. Yard No. 830.

Builders HARLAND & WOLFF LTD.

Owners HAIN. S. S. CO LD.

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

Residence CARDIFF.

Port of Registry LONDON.

If surveyed while building, afloat, or in dry dock ☒ AND.

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.
IS, Spacing amidships	33.		Bracket Floors, Frame		
" from 1/2 length to Collision bulkhead	27.		" " Reversed Frame		
" in peaks	24. FORE.		" " Vertical Struts		
	25. AFTER.		Centre Girder, depth and thickness amidships	45 1/2	61.
FRAMING.			" " top Angles	3 1/2	3 1/2 56
ne Amidships, Angle, E or F	11. 3 1/2 51.		" " bottom Angles	5	5 65
" Extends up to	2nd & 3rd DECK ALTERNATELY.		Side Girders, No. each side and thickness	ONE	44
ersed Frame Amidships, Angle			Margin Plate depth (excl. of flange) and thickness	43	56
" " Extends up to			" " Vertical Angle to Tank side	6	6 50
th of Framing Girder	11.		Bracket abaft 1/2 len. from stem	6	6 50
mes in Uppermost Continuous 'tween Decks, Angle, E or F	6 3 1/2 39.		" " Vertical Angle to Tank side	6	6 50
" Second 'tween Decks, Angle, E or F	11. 3 1/2 51/1		Bracket forward 1/2 len. from stem	6	6 50
" Third " " FORE. PEAK.	6 3 1/2 39. 91T.		Gussets, spacing and scantling abaft 1/2 len. from stem	CONTINUOUS. 44	
ning in Peaks, Angle or F	8 3 1/2 44.		" " Gussets, spacing and scantling forward 1/2 len. from stem	"	44
meter and Spacing of Rivets through Frame and Shell Plating amidships	9 3 1/2 38.		Tank Side Brackets, height above base line at toe of Frame and thickness	6 1/8	50.
e if Frame Joggled	7/8. 5 1/4.		INNER BOTTOM PLATING.		
ING ARRANGEMENTS (Sec. 7), state system and particulars	YES.		Breadth and thickness of Middle Line Strake	66	54
NGTHENING OF BOTTOM FOR- ARD. State Particulars	DEEP FRAMES & SIDE STRINGERS. AS PER APP. PLAN.		Thickness of remainder in Holds		47.
E-BOTTOM.	ADDITIONAL INTERCOSTALS. DOUBLE FRAMES AS PER APP. PLAN.		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.	
ors, Depth and thickness at mid-line in Holds			BEAMS.		
Height of Brackets at side above base line at toe of frame			Uppermost Continuous Deck, amidships	9 3 1/2 38.	
dle Line Keelson, on Floors, Angles, E or F			" " in Wells, Angle, E or F		
" " Through Plate or Intercostal Plate			" " in way of Bridge, Angle, E or F		
" " Foundation Plate on Floors			Spacing	EVERY FRAME.	
" " Flat Plate Keel Angles			Second Deck, amidships, Angle, E or F	9 3 1/2 49.	
e Keelsons, No. each side			Spacing	EVERY FRAME	
" thickness of Intercostal Plate			Third Deck, amidships, Angle, E or F	10 3 1/2 47.	
" Angles			Spacing	EVERY FRAME.	
DOUBLE BOTTOM.			Fourth Deck, amidships, Angle, E or F		
olid Floors, thickness and spacing	44 ON EVERY FRAME.		Spacing		
" " Are Frame and Reversed Frame joggled?	YES.		Poop Deck, Angle, E or F		
Bracket Floors, breadth and thickness at middle line			Spacing		
" " breadth and thickness at margin plate			Bridge Deck, Angle, E or F		
			Spacing		
			Forecastle Deck, Angle, E or F	7 3 38	
			Spacing	EVERY FRAME	

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.....	<i>TWO ROWS OF</i>				Stringer Plate, breadth and thickness in way of Bridge				
" " in 'tween Decks, Size and Spacing.....	<i>WIDE SPACED.</i>				Thickness of Plating abreast Deck openings in way of Wells		<i>.39</i>		
" " " " "	<i>PILLARS AS PER</i>				Thickness of Plating abreast Deck openings in way of Bridge				
" " in Holds	<i>APP' PLAN.</i>				Thickness of Plating within line of openings...		<i>.34</i>		
" " " " "					If Sheathed, material and thickness.				
Centre Line Bulkhead.					Third Deck.				
Stiffeners and Spacing.....					Stringer Plate, breadth and thickness.....	<i>79.</i>	<i>.375</i>		
Plating, thickness of					If Plated, state thickness.....		<i>.34</i>		
STRINGERS AND DECKS.					Fourth Deck.				
Uppermost Continuous Deck.					Stringer Plate, breadth and thickness.....				
Stringer Plate, breadth and thickness in Wells	<i>71</i>	<i>77.</i>	<i>73 x 58.</i>		If Plated, state thickness				
" " " " in way of Bridge					Poop Deck.				
" Angle in Wells	<i>6</i>	<i>6</i>	<i>.61</i>		Stringer Plate, breadth and thickness				
Thickness of Plating abreast Deck openings in way of Wells		<i>.46</i>			Plating, Sheathing, material and thickness ...				
Thickness of Plating abreast Deck openings in way of Bridge					Bridge Deck.				
Thickness of Plating within line of openings...		<i>.41.</i>			Stringer Plate, breadth and thickness.....				
If Sheathed, material and thickness					Plating, Sheathing, material and thickness ...				
Second Deck.					Forecastle Deck.				
Stringer Plate, breadth and thickness in Wells...	<i>79.</i>	<i>.41</i>			Stringer Plate, breadth and thickness.....		<i>.36.</i>		
					Plating, Sheathing, material and thickness ...		<i>.36.</i>		

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	54	80	74	74	✓	DOUBLE.	7/8.	3/10.	4 R TO 3 R.	1.	4.	LAPPED.
„ — DECK (if any)												
BOTTOM PLATING, No. of Strakes 4.....		66	52	52.	✓	"	"	"	"	7/8	3 1/2	"
BILGE PLATING, No. of Strakes 1.....		66	52	52.	✓	"	"	"	"	"	3 1/2	"
SIDE PLATING, No. of Strakes 4.....		64	48	48.	✓	"	"	"	3 R.	"	3 1/2	"
UPPER DECK, Sheer-strake in Wells.....	77.	70	48	48.	✓	"	"	"	4 R. TO 3 R.	"	3 1/2	"
UPPER DECK, Sheer-strake in Bridge ...												
STRAKE BELOW Sheer-strake in Wells.....	77.	64	48	48.	✓	"	"	"	4 R TO 3 R.	"	3 1/2	"
STRAKE BELOW Sheer-strake in Bridge ...												
POOR SIDE PLATING.....												
BRIDGE SIDE PLATING...												
FOREC'TLE SIDE PLATING			44.			SINGLE.	"	3.	1 R.	"	3 1/2	"

WATERTIGHT BULKHEADS.

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

SHELTER.

Extending to ~~Upper~~ Deck (Sec. 3 c)..... *ONE.*

„ Deck next below..... *SIX.*

As per Rule..... *SEVEN.*

~~FORGINGS and CASTINGS.~~

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar				
STEM	ROLLED STEEL	10 x 2 3/4	D. COLVILLE & SONS.	
STERN FRAME {	Propeller Post	IRON AND	15 x 9.	DARLINGTON. FORGE CO.
	Rudder "	STEEL.	9 1/4 x 9.	
RUDDER—A x D.	800	AND 14.	KNOTS.	
Speed of Vessel				
RUDDER mainpiece at head ...	IRON AND	13'	DARLINGTON. FORGE CO.	
" " heel ...	STEEL.	9 3/4.		
" how constructed	BUILT	FORGING.		
" double or single plate		1. 25.		1. 14.
" coupling, vertical or				
" horizontal				

			Plating Thickness.	STIFFENERS.			
				VERTICAL.		HORIZONTAL.	
				Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks							
"	"	Second	27	B. 9. 5 1/2 x 3, 32	30"	✓	✓
"	"	Third					
"	"	Holds	60/35	CHANNEL. 12 x 4 1/2 ✓ B. 9. 3 1/2 x 30.	30"	✓	✓
COLLISION	"	(in Hold)	54/35	B. 9. 8 x 3, 40	34"	THREE. TENN. BOY	BEGINS
AFTER PEAK	"	"	60/30	B. 9. 9 x 3 1/2 x 30	34"	TUNNEL RECESS	

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) OPEN HEARTH.
D. COLVILLE & SONS, STEWART & LLOYD, LTD.
Has the Steel been tested as required by the Rules? YES.

EQUIPMENT No. 43187												LETTER B+				ANCHORS.			
Number of Certificate.	Anchors.	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.							
61314	1st Bower ...	71	3	18	Stackless.			64	15	0	0	69	0	0	HALL'S PATERN.	J. WRIGHT & CO.	TIPTON, 5/7/28. W. A. DRYDALE.		
61313	2nd „ ...	71	3	7	“			54	15	0	0	69	0	0	“	“	“		
61315	3rd „ ...	63	0	7	“			50	0	0	0	69	0	0	“	“	“		
	Collective weight.	206	3	4								207	0	0					
61204	Stream	20	3	7	5	1	14	21	8	0	14	20	2	0	RODGER'S	“	“ 3/5/28. “		

CHAIN CABLES.												HAWSERS AND WARPS.							
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.				Length and Size per Table 53.		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 53.	
	Length.	Diam.	Statutory.	Breaking.	Supplied.		Per Rule.	Length.	Diam.	Length.					Cir.	Length.		Cir.	
63457	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.	✓	J. WRIGHT & CO.	TIPTON, 28/6/28. DRYDALE.	TOWLINE	Fathoms.	Ins.	Tons.	Fathoms.	Ins.
	300.	2 3/8	10 1/2	14 2 1/2	859.	3.	23	844.	1.	0.					300.	2 3/8	130.	5 1/2	88.
Iron Stream Chain as Steel Wire	2-60	Cir. 5"		73.					120.	Cir. 5"					2-100	3.	18.	2-100	2 3/4
															2-100	3.	18.	2-100	2 3/4

Steering Gear, Steam TELE MOTOR BY J HASTIE & CO. Steering Gear, Hand RELIEVING TACKLES WORKED FROM WINCH.

Boats FIVE. Steering Chains, Size and Test ✓ Windlass STEAM BY EMERSON WALKER & CO.

Ceiling in Holds, thickness and material 2 1/2" W.P. Cargo Battens, thickness, material and spacing 2" W.P. SPACED 9".

Cargo Hatchways.—(Upper Deck) STEEL PLATES AND ANGLES. Thickness of Hatches 3"

Size of No. 1 Hatchway (Forward) 27'0" x 20'0" No. 2 44'0" x 20'0" No. 3 16'6" x 20'0" No. 4 22'11'0" x 9'0" No. 5 30'3" x 20'0" No. 6 24'9" x 20'0"

Number of Shifting Beams and/or Fore and Afters 4 to No 1 & 6, 7 to No 2, 2 to No 3, 1 to No 4, 5 to No 5.

For HARLAND AND WOLFF, LIMITED.

Builder's Signature

Archibald Paterson
Greenock Secretary.

GENERAL DECLARATION

This vessel has been built in accordance with the approved plans & the rules of this Society. The materials & workmanship are of good quality. All the double bottom tanks (except No 1), the oil fuel bunkers & the settling tanks have been tested as required for oil fuel compartments & Sec: 20 of the rules complied with. No 1 double bottom tank & fore & after peaks have been tested as water ballast compartments. The bulkheads, tunnel & weather decks have been hose tested. The freeboard has been verified & the marks cut in on ship's side

It will be noted that the collective weight of the bower anchors is 24 lbs less than required by the rules, as this represents only about 10th of 1% deficiency, they are in my opinion eligible for approval.

The amount of Entry Fee £ 10. : 0. : 0. Fees applied for,
Special Survey Fee £ 352.: 10. : 0. 8TH NOVEMBER 1928
FREEBOARD FEE. 11. 0 0. Received by me,
Travelling Expenses, if any £ ✓ : ✓ : ✓ 17. 11. 1928

I am of opinion the Vessel should be Classed 100 A.1.

"WITH FREEBOARD"

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

Signature

APW R. Rab
Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to GREENOCK. Date of issue 18/3/29

Committee's Minute GLASGOW 13 NOV 1928

Character assigned 100 A.1. With freeboard
11,28.

Lloyd's A+C.P.

+ LMC 11,28.

FD.

Fitted for oil fuel 11,28 F.P. above 150° F.



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Lloyd's Register
Foundation

W1267-0/51 4/2

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 approved plans & reports are forwarded herewith.

Midship section. Profile. Deck plans. Rudder & stern frames.

Fore end strengthening. Peak bulkheads. Oil fuel bunkers.

Cruiser stern & after framing. Wide spaced pillars & girders. Hatchways.

Saloon house & boat deck plating. Engineer's house & boat deck plating.

Cast steel quadrant. Pumping arrangements. (14 plans).

Report on iron & steel forged stern & rudder frames. Report on cast steel
heller & quadrant & Midship section. Profile & deck plans of ship
as built

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

1st Bower	HEAD ONLY	41	0	10	M.B.	3621	3/9/25
2nd "	"	41	0	14	K.H.	3721	21/12/25
3rd "	"	39	2	8	K.H.	5319	1/5/28

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle 34.0 ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated
ON SHELTER DK.
COMPLETE SUPERSTRUCTURE VESSEL.

No. and Material of Decks (this information is to be given as it should appear in the Register Book)

2 DKS (STL) & SHELTER DK (STL).

Official No. 160577. Signal Letters ☒

bottom of Vessel coated with cement ONLY IN WAY if not give

particulars of composition OF NO. 1 D.B. TANK AND FORE AND AFTER PEAKS, CEMENT FILLETS IN NO. 1 D.B. TANK. NONE ELSEWHERE.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	90.75.	191	Fore peak tank,	✓	68
Double bottom, under Engines and Boilers,	107.25.	531	After peak tank,	✓	54
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	169.75.	854	Other tanks, if fitted,		
Total capacity of double bottom		1276	(If necessary, furnish further information by sketch.)		
* The wells are not to be included in the lengths of the tanks. 367.75					

Order for Special Survey No. 3229.

Date 4th October 1924

Dates of Surveys
held while building

(1924) Nov. 4. 16. 24. 30. Dec. 8. 16. 20. (1928) Jan. 10. 14. 20. 25. Feb. 1. 3. 8. 10. 14. 14. 21. 24. 24. Mar. 1. 6. 12. 20. 23. 24. April 2. 6. 11.
14. 19. 24. 24. May 2. 8. 11. 15. 18. 22. 25. 29. 30. Jun. 1. 4. 8. 12. 13. 15. 19. 22. 26. July 12. 13. 18. 20. 24. 30. August 1. 8. 13. 15. 16. Sept. 19.
Oct. 22. 30. Nov. 5. 4.

Total No. of Visits 68