

STEEL STEAMER OR MOTORSHIP.

Received at London Office 3 APR 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

26th March 1928 Port of *Sunderland*

No. 29691

Survey held at

Sunderland

Date First Survey

3rd Feb. 1927 Last Survey 24 March 1928

On the

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

Single Screw Steamer "BADJESTAN" Machinery amidships.

State Type

(Full scantling, Complete Superstructure
with or without Tonnage Openings)

Full Scantling

State Type of Erections

P, B & S

TONNAGE under
Tonnage Deck

5138.35

CLASS +100A.1.

State if with freeboard
as condition of Class

No.

Built at

Sunderland

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 395.0

Total

✓

Gross Tonnage

5542.76

Register Tonnage

3352.64

Breadth (greatest moulded)

B 53.45

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

D 31.50

1st Longitudinal Number (L × D)

= 12,442

2nd Numeral L × (B + D)

= 33,643

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

27.29

Proportions—Depth to Length—Uppermost con-
tinuous deck to top of keel

12.50

Do. Long Bridge to top
of keel

10.0

Draught Moulded

25.4

Launched 13th August 1927 Yard No. 260

Builders

Messrs Bartram & Son Ltd.

Owners

Hindustan Steam Shipping Co.

Managers

Common Bros.

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

Residence

Quayside Newcastle-on-Tyne.

Port of Registry

Newcastle.

If surveyed while building, afloat, or in dry dock

Building and afloat &

in dry dock

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	30		Bracket Floors, Frame	B.A. 6 1/2 3 1/2 3 8	
" from 1/4 length to Collision bulkhead	24		" " Reversed Frame	B.A. 5 1/2 3 1/4 0	
" in peaks	24		" " Vertical Struts	E 9 3/4 3 1/2 3 8	
FRAMING.			Centre Girder, depth and thickness amidships	43 x 54	
Amidships, Angle, [or]	15 x 4 1/4 x 1/4 1/2		" " top Angle	5 5 50	
" Extends up to	upper 5/8		" " bottom Angle	6 6 56	
sed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	One - 40	
" Extends up to	✓		Margin Plate depth (excl. of flange) and thickness	40 - 50	
of Framing Girder	15		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	6 6 48	
Bridge			" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem	8 8 42	
in Uppermost Continuous 'tween Decks, Angle, [or]	7 1/2 3 1/2 40 alternate		" " Gussets, spacing and scantling abaft 1/4 len. from stem	3 1/2 3 1/2 42	
" Second 'tween Decks, Angle, [or]	✓		" " Gussets, spacing and scantling forward 1/4 len. from stem	6 6 50	
" Third " " "	✓		Tank Side Brackets, height above base line at toe of Frame and thickness	81 x 47	
ing in Peaks, Angle or [8 3 1/2 38		INNER BOTTOM PLATING.		
ter and Spacing of Rivets through Frame and Shell Plating amid- ships	7/8 5 1/4 4 1/8 Bottom 2ms. Yes Side - No.		Breadth and thickness of Middle Line Strake	40 x 50 + 19"	
Frame Joggled	✓		Thickness of remainder in Holds	6 1/2 42	
ANGEMENTS (Sec. 7), state system and particulars	4 Side Stringers 1 1/4 x 1 1/4 44 Rev. 2ms. Dble. Frame Bottoms 1 extra 1/2 ft. intercostals 3 plates shell to thickness.		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	10 B. Space Owner's extra
ING OF BOTTOM FOR D. State Particulars			BEAMS.		
BOTTOM.			Uppermost Continuous Deck, amidships	4 3 1/2 40	
Depth and thickness at mid-line in Holds	✓		" " in Wells, Angle, [or]	4 3 1/2 40	
Height of Brackets at side above base line at toe of frame	✓		" " Spacing	30	
Line Keelson, on Floors, Angles, [or]	✓		Second Deck, amidships, Angle, [or]	✓	
" " Through Plate or Intercostal Plate	✓		Spacing	✓	
" " Foundation Plate on Floors	✓		Third Deck, amidships, Angle, [or]	✓	
" " Flat Plate Keel Angles	✓		Spacing	✓	
Keelsons, No. each side	✓		Fourth Deck, amidships, Angle, [or]	✓	
" thickness of Intercostal Plate	✓		Spacing	✓	
" Angles	✓		Poop Deck, Angle, [or]	4 1/2 3 42	
BOTTOM.			Spacing	every frame	
Floors, thickness and spacing	40 - 90		Bridge Deck, Angle, [or]	6 1/2 3 1/2 44	
" Are Frame and Reversed Frame joggled?	Yes		Spacing	every frame	
t Floors, breadth and thickness at middle line	32 - 40		Forecastle Deck, Angle, [or]	10 3 1/2 50	
" breadth and thickness at margin plate	31 at top 40		Spacing	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.
PILLARS , No. of Rows.....		3							
Top 48 in. between Decks, Size and Spacing.....		3" 60" 48"							
" " " " " "		3" 60" 48"							
" " " " " "		3" 60" 48"							
" in Holds " " "		8" 8" 88-68"							
" " " " " "		8" 8" 88-68"							
Centre Line Bulkhead.									
Stiffeners and Spacing.....	B.A.	11 3/2 x 56-60							
Plating, thickness of		30							
STRINGERS AND DECKS.									
Uppermost Continuous Deck.									
Stringer Plate, breadth and thickness in Wells		82" x 86"							
" " " " in way of Bridge		82" x 40"							
" Angle in Wells		6" 6" 84"							
Thickness of Plating abreast Deck openings in way of Wells		86							
Thickness of Plating abreast Deck openings in way of Bridge		48" x 36"							
Thickness of Plating within line of openings...		41"							
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	48"	34"							
Plating, Sheathing, material and thickness	30"	5 1/2"	P.P.						
Bridge Deck.									
Stringer Plate, breadth and thickness	66"	44"							
Plating, Sheathing, material and thickness	36"	42"	49"						
Forecastle Deck.									
Stringer Plate, breadth and thickness	54"	34"							
Plating, Sheathing, material and thickness	34"	4"	P.P. under woodless.						

SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	SINGLE OR DOUBLE.	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.				Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
FLAT PLATE KEEL	50	49	69	69	✓	Double	1	3 3/4	4 for 3/5 L 3 ends	1	3 3/4	lapped	
„ DBLG. (if any)	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
BOTTOM PLATING, No. of Strakes <i>Four</i>	69	62	44	44	✓	Double	7/8	3 5/16	4 for 1/2 L 3 ends	7/8	3 1/2 x 3 1/16	lapped	
BILGE PLATING, No. of Strakes <i>One</i>	66	62	44	44	✓	---	7/8	3 5/16	4 for 1/2 L 3 ends	7/8	3 1/2 x 3 1/16	---	
SIDE PLATING, No. of Strakes <i>Four</i>	66	62	45	45	✓	---	7/8	3 5/16	3 R full length	7/8	3 1/16	---	
	66	62	45	45	✓	---	7/8	3 5/16	5 at break	7/8	5 5/8	---	
UPPER DECK, Sheer-strake in Wells.....	50	84	45	45	✓	---	1 1/8	3 1/2	1 R 3/5 L 3 ends	1 1/8	4	2 1/16	---
UPPER DECK, Sheer-strake in Bridge ...	50	62	✓	✓	✓	---	7/8	3 5/16	3 R.	7/8	3 1/16	---	
STRAKE BELOW Sheer-strake in Wells.....	64	42	45	45	✓	---	1 1/8	3 1/2	4 R for 1/2 L 3 R ends	7/8	3 1/2 x 3 1/16	---	
STRAKE BELOW Sheer-strake in Bridge ...	64	62	✓	✓	✓	---	7/8	3 5/16	3 R.	7/8	3 1/16	---	
POOP SIDE PLATING	✓	✓	✓	38	✓	Single	3/4	3	2 R	3/4	2 5/8	---	
BRIDGE SIDE PLATING ...	54	58	✓	✓	✓	Double	7/8	3 5/16	3 R	7/8	3 1/16	---	
FORECASTLE SIDE PLATING	✓	✓	40	✓	✓	Single	3/4	3	2 R.	3/4	2 5/8	---	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—		8				
Extending to Upper Deck (Sec. 3 c).....		8				
" Deck next below.....		1				
As per Rule.....		6				
		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings, Spacing.		Scantlings	Spacing
MIDSHIP BULKH'D, Upper tween decks		✓	✓	✓	✓	✓
" " Second "		✓	✓	✓	✓	✓
" " Third "		✓	✓	✓	✓	✓
" " Holds		✓	✓	✓	✓	✓
COLLISION " (in Hold)		✓	✓	✓	✓	✓
AFTER PEAK " "		✓	✓	✓	✓	✓

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL , Bar	Flat Plate	Keel.		✓
STEM	Forging	9 1/2 x 2 3/4		✓
STERN FRAME { Propeller Post	---	10 1/2 x 4 3/4		✓
{ Rudder "	---	9 x 4 3/4		✓
RUDDER—A x D		540		✓
Speed of Vessel	under 10 knots.		Darlington	
RUDDER mainpiece at head ...		10 1/2 dia	Large Ltd.	
" " heel ...		8"		
" how constructed	Forged & built.			
" double or single plate	Single plate			
" coupling, vertical or horizontal	Horizontal			

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) <i>Open Hearth Process.</i>
	<i>Plates - Bonsett, Iron Co. Ltd. South Durham S & L. Ltd.</i>
	<i>Angles - Cargo Sheet Iron Co. Ltd. Pease & Partners, Ltd.</i>
	Has the Steel been tested as required by the Rules? <i>Yes.</i>

EQUIPMENT No. 34904											LETTER Z	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.			
88416	1st Bower	64	1	14	-	-	-	50	15	-	-	63.45	Stockless	W. Hingley & Sons Ltd.	Hetheron 17/4/26 H. Green
89101	2nd "	63	1	5	-	-	-	50	5	-	-	63.45	" "	" "	29/6/24 L. -
89106	3rd "	54	2	-	-	-	-	45	1	1	-	54.50	" "	" "	30/6/24 " "
	Collective weight.	182	-	19								182.0			
89102	Stream	14	3	-	4	3	-	18	16	1	-	14.5	Iron Stock.	" "	29/6/27 " "

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.	Statu-tory.	Break-ing.	Supplied.	Per Rule.	Length.	Diam.	Length.	Cir.					Length.	Cir.					
	Fathoms.	Ins.	Tons.		Owts.	qrs.	lbs.	Owts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.		
80528	135	2 1/4	9.1	124.5	344	1	9	682.25	240	2 1/4	Stud link	W. Hingley & Sons	Hetheron	29/4/27	GREEN	120	5	43	120	5	
80548	135	2 1/4	9.1	124.5	344	2	26							30/4/27	GREEN	4-90	2 3/4	22	2-90	2 3/4	
Iron Chain Steel Wire	90	4 3/4		655					90	4 3/4					GREEN					2-90	2 1/2

Steering Gear, Steam *J. Lynn & Co.* Steering Gear, Hand *Refueling tackle operated from winch & brake gear.*

Boats 2 26' lifeboats 1-18 cutter 1-18 *Singly.* Steering Chains, Size and Test *5/8" dia. 31 12 2 0* Windlass *Clarke Chapman & Co.*

Ceiling in Holds, thickness and material *2 1/2" W.W. over limbers only. None in way of Hatches. Taps top, next to sheer.* Cargo Battens, thickness, material and spacing *6"x2" 12" Spacing.*

Cargo Hatchways.—(Upper Deck) *Steel Plates & Angles.* Thickness of Hatches *3"*

Size of No. 1 Hatchway (Forward) *31'-6" x 20'-0" No. 2 32'-6" x 20'-0" No. 3 22'-6" x 20'-0" No. 4 32'-6" x 20'-0" No. 5 30'-0" x 20'-0" No. 6* ✓

Number of Shifting Beams and/or Fore and Afters *6 in Nos. 1, 2 & 4. 5 in No. 5. 2 & 4 in No. 3.*
For Bartram & Sons Ltd.

Builder's Signature *Bartram*

GENERAL DECLARATION *This vessel has been constructed in accordance with the approved plans, the Rules & Secretary's letters. The materials and workmanship are good. The freeboard has been verified and the marks cut in on the vessel's sides. The double bottom tanks, peak tanks, and deep tanks amidships have been satisfactorily tested. The decks, bulkheads & tunnel have been hose tested, winchless steering gear and hand pump, also W.T. doors tried under working conditions and found satisfactory. The approved plans (11 in No.) are forwarded herewith. 2 forging certificates are also enclosed.*

List of Plans. Midship Section, Profile & Decks, Pillars & Girders, Hatches, Punting Arrangement & Peak Bulkheads, Deep Tank & Bulkheads, Rudder, Sternframe, (2) Tunnel Stiffeners, Pumping Arrangement.

The cargo battens are spaced 12" apart, and a letter from the Owners agreeing to this spacing is enclosed.
P. T. O.

The amount of Entry Fee £ 9 : 0 : 0 Fees applied for, *19 Mar 1928*

Special Survey Fee.... £ 339 : 6 : 6 Received by me, *14.4.28*

Freeboard 10.1.18

Travelling Expenses, if any £ : : *14.4.28*

State whether the Vessel has been built under Special Survey *Yes.* Signature *Jas. Rennie, Sol. Bartram*
H & M Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *SUNDERLAND.* Date of issue *17/4/28.*

Committee's Minute *8761 H&M 11 APR 1928*

Character assigned *100H*

Lloyds atcp.

L M C 3.28

J.D. C.L.

My

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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.)

Damage due to cause unknown:-

Now Done:- Vessel placed in dry dock on completion and the following plates found to be slightly indented:-

Starboard side (numbers from forward) E6, F5 and D10.

Port side (numbers from aft) B7, 8+9; C7, 8+9; + D7, 8+9.

The double bottom tanks were full, and the bottom examined and a few slight leaks found, and placed in order.

Repairs now done:- Defective rivets and caulking made good.

As the vessel was urgently required the Owners desired to defer the carrying out of permanent repairs.

The indents being slight it is submitted that the Owners proposal to carry out permanent repairs at the first convenient opportunity merits approval.

C.B.

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

1st Bower	38-0-0	D.D.W.	1108	10/9/18
2nd "	34-3-25	K.H.	3403	21/12/25
3rd "	32-0-15	M.B.	2825	30/6/26

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 34.45 ft., R.Q.D. ✓ ft., Bridge 104.45 ft., Forecastle 25.25 ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 1 Plk (Stl).

Official No. 149451; Signal Letters _____ Is bottom of Vessel coated with cement Yes if not give particulars of composition _____

PARTICULARS OF WATER BALLAST.—

Where Fitted.	Length.		Water Capacity.	Where Fitted.	Length.		Water Capacity.
	Feet.	Tons.			Feet.	Tons.	
Double bottom, aft,	140	411	Fore peak tank,	✓	29.25	321	
Double bottom, under Engines and Boilers,	40	148	After peak tank,	✓	24.0	266	
Double bottom, if under Engines only,	-	-	Deep tank, aft,	✓	24.5	1184	
Double bottom, if under Boilers only,	-	-	Deep tank, forward,	-	-	-	
Double bottom, forward,	159.5	625	Other tanks, if fitted,	-	-	-	
Total capacity of double bottom		1214	(If necessary, furnish further information by sketch.)				

* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 5619

Date 9.2.27.

Dates of Surveys held while building

1927. Feb. 3, 14, 22, 28. Mar. 3, 10, 16, 19, 24, 28, 31. Apr. 4, 6, 11, 13, 20, 26. May 2, 6, 16, 17, 19, 23, 31. June 3, 9, 13, 14, 17, 24, 28, 29. July 4, 6, 11, 13, 15, 18, 21, 25, 27, 28. Aug. 4, 6, 9, 10, 13, 15, 18, 22, 24, 25, 29, 30. Sep. 5, 14, 15, 16, 19, 22. Oct. 14, 25, 29. Dec. 9, 10, 14, 15, 16, 17, 20, 21, 1928. Jan 28. Feb. 14, 22, 23. Mar. 24.

Total No. of Visits 76