

STEEL STEAMER or MOTORSHIP.

Received at London Office 8 NOV 1929

State if Report has been sent on the Freeboard of the Vessel YesState if Report is sent on the Machinery of the Vessel Yes

Date of completion of report

November 5th 1929. Port of SunderlandNo. 30186

Survey held at

Sunderland

Date First Survey

13th Dec. 1928

Last Survey

2nd Nov. 1929

On the

(State if Machinery fitted with or without Tonnage Openings)

S.S. "RAJAHSTAN"

State Type

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

Full ScantlingState Type of Erections Prop. Br. & Hile

TONNAGE under Tonnage Deck...

5,800.00CLASS +100A1

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 425.0

Breadth (greatest moulded)

B 56.75

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

D 33.33

1st Longitudinal Number (L x D)

= 14,165

2nd Numeral L x (B + D)

= 38,284

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

28.41

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

12.75

Do. Long Bridge to top of keel

10.28

Draught Moulded

26' 4"Launched Sep 22nd 1929 Yard No. 267Builders Messrs Bartram & SonsOwners The Hindustan Steam Shipping Co.Managers Common Bros.

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

Residence Quayside, Newcastle-on-TynePort of Registry Newcastle-on-Tyne

If surveyed while building, afloat, or in dry dock

Yes

REGISTERED DIMENSIONS.

FEET.

Length

425.0

Breadth

55.75

Depth

31.09

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	<u>30</u> ✓		Bracket Floors, Frame	<u>B. 9. 6 1/2 3 1/2 .38</u> ✓	
" " from 1/2 length to Collision bulkhead	<u>27</u> ✓		" " Reversed Frame	<u>B. 9. 6 3 .36</u> ✓	
" " in peaks	<u>24</u> ✓		" " Vertical Struts	<u>[10x3 1/2 x 3 1/2 x 4 1/2]</u> ✓	
IDE FRAMING.			Centre Girder, depth and thickness amidships	<u>59x50</u> ✓	
Frame Amidships, Angle, [or]	<u>15x4x4x52</u> ✓		" " top Angles	<u>de. 3 1/2 3 1/2 .52</u> ✓	
" " Extends up to	<u>Upper Dk.</u>		" " bottom Angles	<u>de. 4 4 .58</u> ✓	
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	<u>1 - .38</u> ✓	
" " Extends up to	✓		Margin Plate depth (excl. of flange) and thickness	<u>59x52</u> ✓	
Depth of Framing Girder	<u>15"</u>		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	<u>6x6x.46</u> ✓	
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	✓		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	<u>6x6x.46</u> ✓	
" " Second 'tween Decks, Angle, [or]	✓		" " Gussets, spacing and scantling abaft 1/2 len. from stem	<u>6 3 1/2 .42</u> ✓	
" " Third " " " " " "	<u>7 1/2 3 1/2 .40</u> ✓		" " Gussets, spacing and scantling forward 1/2 len. from stem	<u>6 6 .60</u> ✓	
Framing in Peaks, Angle, [or]	<u>9 3 1/2 .40</u> ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	<u>96x49</u> ✓	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<u>7" Rivets 5 1/4"</u> ✓		INNER BOTTOM PLATING.		
State if Frame Joggled	<u>Yes</u>		Breadth and thickness of Middle Line Strake	<u>70x50</u> ✓	
FRAMING ARRANGEMENTS (Sec. 7), state system and particulars	<u>3.15" Channel Beams</u> ✓		Thickness of remainder in Holds	<u>.44</u> ✓	<u>.64 under Hatchways</u>
STRENGTHENING OF BOTTOM FORWARD. State Particulars	<u>25x4x4x19x.44</u> ✓		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?	<u>Yes</u>	<u>Floors, Tank Top, Side Girders, 10 Gunports</u>
ANGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds	✓		Uppermost Continuous Deck, amidships in Wells, Angle, [or]	<u>7 1/2 3 1/2 .42</u> ✓	
Height of Brackets at side above base line at toe of frame	✓		" " in way of Bridge, Angle, [or]	<u>7 1/2 3 1/2 .42</u> ✓	
Middle Line Keelson, on Floors, Angles, [or]	✓		Spacing	<u>Every</u> ✓	
" " Through Plate or Intercostal Plate	✓		Second Deck, amidships, Angle, [or]	✓	
" " Foundation Plate on Floors	✓		Spacing	✓	
" " Flat Plate Keel Angles	✓		Third Deck, amidships, Angle, [or]	✓	
Side Keelsons, No. each side	✓		Spacing	✓	
" " thickness of Intercostal Plate	✓		Fourth Deck, amidships, Angle, [or]	✓	
" " Angles	✓		Spacing	✓	
DOUBLE BOTTOM.			Poop Deck, Angle, [or]	<u>8 3 .42</u> ✓	
Solid Floors, thickness and spacing	<u>38. Every 3'</u> ✓		Spacing	<u>Every</u> ✓	
" " Are Frame and Reversed Frame joggled?	<u>Yes</u> ✓		Bridge Deck, Angle, [or]	<u>7 3 1/2 .47</u> ✓	
Bracket Floors, breadth and thickness at middle line	<u>33x40</u> ✓		Spacing	<u>Every</u> ✓	
" " breadth and thickness at margin plate	<u>30x40</u> ✓		Forecastle Deck, Angle, [or]	<u>9 1/2 3 1/2 .49</u> ✓	
			Spacing	<u>Alternate</u> ✓	

PILLARS AND DECKS.

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.							
,, in 'tween Decks, Size and Spacing.....		✓							
,, " " " " "		✓							
,, in Holds " "		2. 8x8x1.00 to 8x8x.75 on widely spaced.		✓					
,, " " " " "		✓							
Centre Line Bulkhead.									
Stiffeners and Spacing.....		12x4x4x 1/2" to 8x3x.48 on alternate frames		✓					
Plating, thickness of .....		.30		✓					
STRINGERS AND DECKS.									
Uppermost Continuous Deck.									
Stringer Plate, breadth and thickness in Wells		72x.94.		✓					
,, " " " " in way of Bridge		72x.50.		✓					
,, " " " " Angle in Wells		6 6 .90		✓					
Thickness of Plating abreast Deck openings in way of Wells .....		.94.		✓					
Thickness of Plating abreast Deck openings in way of Bridge .....		.36.		✓					
Thickness of Plating within line of openings...		.40		✓					
If Sheathed, material and thickness		✓							
Second Deck.									
Stringer Plate, breadth and thickness in Wells...		✓							
Stringer Plate, breadth and thickness 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		48x.36		✓					
Plating, Sheathing, material and thickness ...		26 5x2x.P.P		✓					
Bridge Deck.									
Stringer Plate, breadth and thickness.....		72x.47.		✓					
Plating, Sheathing, material and thickness ...		.47.		✓					
Forecastle Deck.									
Stringer Plate, breadth and thickness.....		48x.36.		✓					
Plating, Sheathing, material and thickness ...		34 Underwindlass sheathed.		✓					

SHELL PLATING.

SCANTLINGS.					RIVETING.									
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.						
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled?	No.	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.	
	Inches.	Inches.	Inches.	Inches.										
FLAT PLATE KEEL	51	.84.	.74	.74.			Double	1	3 7/8	4	1	3 7/8	Strapped.	
" DBLG. (if any)	-	-	-	-				-	-	-	-	-	-	
BOTTOM PLATING, No. of Strakes	4	.64.	48	.48.	In little		Double	7/8	3 3/8	4	7/8	3 3/8	Strapped.	
BILGE PLATING, No. of Strakes	1	.64	.48	.48.			Double	7/8	3 3/8	3	7/8	3	Strapped	
SIDE PLATING, No. of Strakes	4	.64	.46	.46.			Double	7/8	3 3/8	3	7/8	3	Strapped.	
UPPER DECK, Sheer-strake in Wells.....	51	.90.	.46	.46.			Double	1	3 7/8	5	1	4 1/4	Strapped	
UPPER DECK, Sheer-strake in Bridge ...	51	.64					Double	7/8	3 3/8	4	7/8	3 3/8	Strapped	
STRAKE BELOW Sheer-strake in Wells.....	68	.79	.46	.46			Double	1	3 7/8	4	1	3 7/8	Strapped	
STRAKE BELOW Sheer-strake in Bridge ...	68	.64					Double	7/8	3 3/8	4	7/8	3 3/8	Strapped.	
POOP SIDE PLATING .....		.40					Single	3/4	3	2	3/4	2 1/2	Strapped
BRIDGE SIDE PLATING ...		.62					Double	7/8	3 3/8	3	7/8	3	Strapped
FOREC'TLE SIDE PLATING		.42					Single	3/4	3	2	3/4	2 1/2	Strapped	
FORGINGS and CASTINGS.														

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—		STIFFENERS.	
Extending to Upper Deck (Sec. 3 c) 7. ✓		VERTICAL.	
" Deck next below 1 ✓		HORIZONTAL.	
As per Rule 7. ✓		Scantlings, Spacing.	
MIDSHIP BULKHEAD, Upper tween decks ✓		Scantlings, Spacing.	
" " Second " ✓		Scantlings, Spacing.	
" " Third " ✓		Scantlings, Spacing.	
" " Holds 47. ✓ 28. 12 x 14 x 66 30" ✓		Scantlings, Spacing.	
COLLISION " (in Hold) 52. ✓ 26. 9 x 3 1/2 x 44 24" 2 Semi-bulkhead		Scantlings, Spacing.	
AFTER PEAK " " 56. ✓ 30. 8 x 3 1/2 x 46 24" 2 Semi-bulkhead		Scantlings, Spacing.	

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	✓	✓	✓	✓
STEM	Rolled Steel	10x2 $\frac{3}{4}$	Beardmore ✓	
STERN FRAME { Propeller Post }	Forging	10 $\frac{1}{2}$ x8 $\frac{1}{2}$ ✓	Sunderland	
{ Rudder " }		9x8 $\frac{1}{2}$ ✓	Forge	
RUDDER—AxD.		557.		
Speed of Vessel		Under 10 Knots.		
RUDDER mainpiece at head ...		10 $\frac{1}{2}$ ✓	Sunderland	
" " heel ...		8. ✓	Forge	
" how constructed		Forged arms, riveted on		
" double or single plate		Single 1.04.		
" coupling, vertical or		Vertical.		
" horizontal				

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open-hearth process*
Cargo Reef Iron Co. Ltd., Dorman Long & Co. Ltd., South Durham, Consett, Pease & Partners Ltd.

Has the Steel been tested as required by the Rules? yes.

8 NOV 1929

EQUIPMENT No. 39,675.

LETTER at.

ANCHORS.

Number of Certificate.	Anchor.	WEIGHT, EX. STOCK.	WEIGHT OF STOCK.	TEST, PER CERTIFICATE.	WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
90804	1st Bower	Cwts. qrs. lbs. 68 1 0	Cwts. qrs. lbs.	Tons. cwts. qrs. lbs. 52 15 2 14.	Cwts.	Hartshorne	H. Hingley	L.P.H.N. 4.6.29 H.G.
90799	2nd "	68 0 14		52 15 2 14.		"	H. Hingley	L.P.H.N. 4.6.29 H.G.
90721	3rd "	58 2 18		47 12 2 0		"	H. Hingley	L.P.H.N. 4.6.29 H.G.
	Collective weight.	195 0 4			194-2-0			
90677	Stream	19 1 4	5 0 18	20 4 0 7	19-0-0	Ordinary	H. Hingley	L.P.H.N. 26.4.29 H.G.

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.	Tons.	Length. Cir.
85353	135 2 5/8	96 1/4	134 3/4 363-1-25	270 2 5/8	Slad- rums	H. Hingley	L.P.H.N. 20.4.29.	TOWLINE...	120 5 1/4	65	120 5 1/4
85354	135 2 5/8	96 1/4	361-0-0. 720-3-0. 724-1-25			H. Hingley	L.P.H.N. 31.5.29 H.G.	HAWSERS & WARPS	2090 2 1/2	15 1/2	2090 2 1/2
									2090 2 1/2	12 1/2	2090 2 1/2
Iron Stream	90 5		59.	90 5							

Steering Gear, Steam John Symms & Co. Ltd.

Steering Gear, Hand Auxiliary blocks & tackles

Boats 2. 26' lifeboats 2. 13' Duple Steering Chains, Size and Test.

T. Motor Gear

Windlass Clarke Chapman.

Ceiling in Holds, thickness and material No ceiling

Cargo Battens, thickness, material and spacing 6" x 2" W.P. 6" apart between

Cargo Hatchways.-(Upper Deck) Steel plates and angles

Thickness of Hatches 3"

Size of No. 1 Hatchway (Forward) 31' 6" x 22' 0" No. 2 32' 6" x 22' 0" No. 3 36' 0" x 20' 0" No. 4 37' 6" x 22' 0" No. 5 37' 6" x 22' 0" No. 6

Number of Shifting Beams and/or Fore and Afters No. 1, 6. No. 2, 6. No. 3, 8. No. 4, 7. No. 5, 7.

Builder's Signature

J. H. S. S. S.

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel No. (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo No. The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

This vessel has been constructed in accordance with the approved plans, the Society's Rules and the Secretary's letter. The materials and workmanship are good.

The double bottom tanks, peak tanks, decks and waterways, bulkheads and tunnel have been tested as required by the Society's Rules, and found satisfactory.

The windlass, steering gear, hand pump, W. Y. doors and winch davits have been tested and found satisfactory.

The freeboard has been verified, and cut in on the vessel's sides.

The following approved plans are forwarded:- Midship Section, Profile & Decks, Bulkheads, Pillars & Girders, Painting Arrangements (2 plans), Hatches, Suction pipe Arrangement (8 plans).

+ Forging Certificates + Plans of Midship Section, Profile and Decks, as requested, enclosed.

The amount of Entry Fee £ 10: . . .

Fees applied for,

Special Survey Fee.... £ 359: 15: 6

Received by me,

Travelling Expenses, if any £

I am of opinion the Vessel should be Classed +100 A1.

State whether the Vessel has been built under Special Survey

Yes

Signature

Colin Bartlett?

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to SUNDERLAND.

Date of issue 13/11/29

Committee's Minute,

TUE. 12 NOV 1929

Character assigned

+100 A1

Lloyd's A & C

+ L.M.C. 11.29

Cr

Mike Ad

M. H.



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Lloyd's Register Foundation

0245 212

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

1st Bower	44 ⁴⁴ -1-26	K. H.	6290.	28.3.29.
2nd "	45-0-12.	K. H.	5328	26.4.29.
3rd "	36-1-20.	K. H.	3650	28.9.25.

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

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length.	Water Capacity.	Where Fitted.	*Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	150'-0"	605	Fore peak tank,	24'-0"	158
Double bottom, under Engines and Boilers,	42'-6"	288	After peak tank,	26'-6"	325
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	182'-6"	1,000	Other tanks, if fitted,		
	Total capacity of double bottom	1,893	(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. 5693

Date 4.1.29

Dates of Surveys

1928. Dec. 13, 14. 1929. Jan. 11, 20, 31. Feb. 5, 7, 13, 28. Mar. 5, 10, 18, 21, 22, 27. Apr. 4, 8, 12, 16, 18, 19, 23, 25, 26, 30. May. 3, 14, 22, 24, 25, 29, 31. June. 4, 6, 7, 11, 14, 17, 20, 25. July. 1, 3, 5, 8, 11, 15, 16, 24. Aug. 7, 16, 27, 29. Sep. 3, 5, 11, 16, 24, 27. Oct. 3, 4, 10, 18, 24, 25, 28. Nov. 2.

Total No. of Visits 66