

MON. 14 APR. 1919

# With or Without Disconnected Erections.

## STEEL STEAMER.

Received at London Office

Date of completion of report 11<sup>th</sup> April 1919  
 Survey held at *Grimsby*  
 State of Report is also sent on the Machinery of the Vessel *Yes.*  
 Port of *Grimsby*  
 Date, First Survey 29<sup>th</sup> October/17 Last Survey 2<sup>nd</sup> April 1919.

On the (State of Single, *Grimsby*)  
**TONNAGE** under  
 Tonnage Deck... 4709.37  
 Do. between Tonnage Dk. and 3rd and 4th Dk. 165.24  
 Total under Upper Dk. 4709.37  
 Do. of Poop 165.24  
 Do. of R.Q.Dk. 18.60  
 Do. of Bridge House 6.34  
 Do. of Forecastle 142.56  
 Do. of Houses on Dk. 89.59  
 Do. of excess of Hatchways above Crown of Engine Room... 48.93  
 ss Tonnage 5180.47  
 Crew Space 250.32  
 above Crown of Engine Room... 48.93  
 AGE FOR FEES... 1657.80  
 Engine Room 112.89  
 Navigation Spaces

S. S. "BINFIELD"

CLASS 100 A1

FEET.

Breadth (greatest moulded)... 52.00  
 Depth, at middle of length from top of keel to top of upper deck beams at side... 31.00  
 Transverse Number... 83.00  
 Length on deck from fore part of stem to after part of stern post... 400.00  
 Longitudinal Number... 332.00  
 Depth "d," at middle of length (See Secs. 2 & 13)... 27.5  
 Proportions—Depths to Length—Upper Deck Beam at side to top of keel... 12.90  
 " " Long Bridge Deck Beam at side to top of keel... 10.00

Rig  
 Master J. Dunning  
 Year of appointment  
 Built at *Grimsby*  
 When built 1919. Launched 19<sup>th</sup> November 1918  
 By whom built *Mr. Rayner Dixon & Co.*  
 Owners *British India Steam Navigation Co. Ltd.*  
 Managers *Johnsons*  
 Residence *London*  
 Port belonging to *Grimsby*

Destined Voyage *Leamport to load. If Surveyed while Building, Afloat, ~~in Dry Dock~~ Yes.*  
 Dimensions of Ship per Register. Length 400.3 breadth 52.4 depth 28.5  
 Moulded depth, ft. 38 ins. 12 To Bridge Dk. Round of Upper Dk. Beam, Actual 13 ins.  
 Moulded depth, ft. 31 ins. 0 To Upper Dk.

FRAMING.				PILLARS.			
NAME, Angle, or Bars amidships	Inches in Ship	Inches in Ship	Inches in Ship	PILLARS In 'tween Deck, size and spacing	Inches in Ship	Inches in Ship	Inches in Ship
Do. in peaks	3A 10	3 1/2	46	" Hold	3A 10	3 1/2	46
Do. in way of Double Bottoms at Solid Floors...	3A 8	3	38	" Quarter 'tween Dks.,	3A 9 1/2	3 1/2	46
" " at intermdt. Bkts.	3A 9	3 1/2	42	" in Hold	3A 9 1/2	3 1/2	46
Spacing of Frames from centre to centre amidships	26		26				
" " length to Collision bulkhead	26		26				
" " in peaks	24		24				
REVERSED FRAME, Angles...	6	3 1/2	42				
Do. in way of Double Bottoms at Solid Floors...	3 1/2	3 1/2	42				
" " at intermdt. Bkts.	8	3	46				
FRAMING, depth of girder	11 1/2		11 1/2				
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships...	Cellular Double Bottom Through						
" in way of Engine and Boiler Spaces							
" thickness at the ends of vessel							
" depth at 1/2 the half breadth, as per Rule							
" height extended at the Bilges							
FLOORS in Cell. Double Bottoms...	42	38	50				
" state if flanged (top & bottom)...	26		26				
" Spacing of Solid floors	26		26				
CENTRE GIRDER, in Dbl. bottom, dpth. & thckness	42	38	50				
" Angles, Top	6	6	66				
" Bottom	6	6	66				
" to Floors	6	6	46				
Brackets at intermdt. frmg., wdth & thckness	3-3	42-38	3-3				
SIDE GIRDERS, number on each side & thickness	one	42-38-50	one				
" state if flanged (top and bottom)	3 1/2	3 1/2	40				
" Angles (top and bottom)	3 1/2	3 1/2	40				
" to Floors	3 1/2	3 1/2	40				
MARGIN PLATE, depth (exclusive of flange) and thickness	38	42	50				
" Angle to Outside Plating	3 1/2	3 1/2	40				
" Floors	3 1/2	3 1/2	40				
Brackets at intermdt. frmg., wdth & thckness	3-3	42-38-50	3-3				
Height of Outside Brackets above at bilge	50		50				
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	72	50	40				
" in Engine and Boiler space	65	42	38				
" Remainder in Holds	42	38	50				
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	10	3 1/2	46				
" In way of Long Bridge	8	3	38				
" Spacing	26		26				
BEAMS, Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	9	3 1/2	46				
" Spacing	26		26				
BEAMS, Third and Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	9	3 1/2	46				
" Angles on upper edge	26		26				
" Spacing	26		26				
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	8	3	38				
" Angles on upper edge	26		26				
" Spacing	26		26				
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	9	3 1/2	46				
" Angles on upper edge	26		26				
" Spacing	26		26				
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	9	3 1/2	46				
" Angles on upper edge	26		26				
" Spacing	26		26				



WEB FRAMES.						Inches in Ship.		Inches per Rule.		Inches per Rule, Or as Approved.	
WEB-FRAMES, In Fore Body, No. and spacing						118, 125, 134, 140, 154, 163, 167, 171					
" " brdth. & thickness						36 x 42, 46, 54					
" No of Side Stringers "						3 parallel stringers at fore end					
WEB-FRAMES, In E. & B. Space, No. & spacing						83					
" " brdth. & thickness						20 x 20					
WEB-FRAMES, In After Body, No. and spacing						65, 83, 40, 34					
" " brdth. & thickness						36 x 42 - 46					
" No. of Side Stringers "						7-3/2 x 20	6 x 3/2 x 50 DA				
Size of Face Angles to Web-Frames.....						✓					
BRACKET PLATES to Stringers between Web Frames, depth and thickness.....						✓					

BULKHEADS.		Number.		Thickness.		STIFFENERS.				Single or Double Frames.		Height up state deck.	
Vessel.	Per Rule.	Inches.	Per Rule.	Inches.	Per Rule.	Horizontal.	Vertical.	Size.	Spacing.	Size.	Spacing.	Inches.	Per Rule.
		Inches.		Inches.		Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	
W.T.BULKHEADS		46		42-36		[12-3/2 x 3/2]	30	6-6-05		110"			
by A		72		42-36		[10-3/2 x 3/2]	30	6-6-08		110"			
		94		36-32		[12-3/2 x 3/2]	30	6-6-42		110"			
		110		42-36		[12-3/2 x 3/2]	30	6-6-48		110"			
		142		42-36		[12-3/2 x 3/2]	30	6-6-48		110"			
COLLISION		175		40-30		[10-3/2 x 3/2]	30	6-6-42		110"			
PARTITION		7-12		38-30		[10-3/2 x 3/2]	30	6-6-42		110"			
LONGITUDINAL													

Are the outside Plates doubled two spaces of Frames in length? Bracketed Yes

Are the Chain Valves and Watertight Doors in efficient working order? Yes

FORGINGS OR CASTINGS.		Inches in Ship		Inches per Rule, Or as Approved.	
KEEL, Bar, depth and thickness .....		24x plate		Reel.	
STEM, moulding and thickness .....		10 1/2 x 2 3/4		10 1/2 x 2 3/4	
STERN-POST for Rudder do. do. ....		9 x 7 1/2		9 x 7 1/2	
" for Propeller .....		10 1/2 x 7 1/2		10 1/2 x 7 1/2	
RUDDER-A X D* Table 22. Speed under 12		503		503	
Main-Piece, diameter at head .....		10" ✓		10"	
" " " at heel .....		7 1/2 ✓		7 1/2	

RUDDER, how constructed Large main piece with arms above

" Thickness of Plate or Single Plate 1.10 ✓

Can the Rudder be unshipped aloft? Yes. Horizontal coupling

Manufacturer's name or trade mark of the Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c.? Open heart process.

See also. Vaughan & Sonnes Long Creek

Cargo. Reel South Durham

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

PLATING.												RIVETING.											
STRAKES.		AS IN SHIP.				PER RULE OR AS APPROVED.				EDGES.				BUTTS.									
		AMIDSHIP.		FORWARD.		AFT.		AMIDSHIP.		Ordinary or Joggled.		RIVETS.		Double or Treble and for what Length.				STRAPS.				IF LAPPED.	
Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Single or Double.	Breadth of Lap.	Diam.	Space cr. to cr.	Diam.	Spacing cr. to cr.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	For what Length.	
Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	
FLAT PLATE KEEL.....		47	10	70	70	47	10-70	Double	6 3/4	1 1/8	4 1/2	Quadruple	1 1/8-1	4 1/2-4	16-14	F-A							
GARBOARD OF A Strake		72	66	64	64	72	66-48	"	5 1/4	7/8	3 1/4	"	"	"	12-9	"							
State actual thickness in way of Double Bottom.		B	72	66	66	72	66-48	"	"	"	"	"	"	"	"	"							
C		72	66	48	58	72	66-48	"	"	"	"	"	"	"	"	"							
D		72	66	48	66	72	66-48	"	"	"	"	"	"	"	"	"							
E		62	66	48	78	72	66-48	"	"	"	"	"	"	"	"	"							
F		72	66	44	44	72	66-44	"	"	"	"	"	"	"	"	"							
G		72	66	44	44	72	66-44	"	"	"	"	"	"	"	"	"							
H		72	66	44	44	72	66-44	"	"	"	"	"	"	"	"	"							
J		72																					

EQUIPMENT NO.				LETTER				ANCHORS.				TONNAGE U.D.K. OR PLATING NO. FOR TRAWLERS					
Number of Certificate.		Anchors.		WEIGHT, EX. STOCK		WEIGHT OF STOCK		TEST PER CERTIFICATE		WEIGHT REQUIRED BY TABLE 31.		Description of Anchor		Makers.		Where and when tested and Superintendent.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.			
22080	1st Bower ...	62	1	14	38	2	21	49	15	0	0	60	0	0	"	"	Sunderland, L.H.P. 14/6/18
23043	2nd " "	58	3	7	35	1	14	47	13	3	0	60	0	0	"	"	" " " 14/6/18
23056	3rd " "	51	0	7	31	3	21	43	1	2	7	50	2	0	"	"	" " " 14/6/18
	4th " "																
	Collective weight.	172	1	0								170	2	0			
79870	Stream .....	16	1	0	4	1	0	17	11	3	14	16	1	0	New York.	Hampden & Son.	Liverpool, W.S. 27-6-18
81053	Kedge.....	7	0	4	1	3	"	9	7	0	21	7	0	0	"	"	" " " "

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

	1st Bower	2nd "	3rd "	4th "
Weight	35-0-7	31-2-21	28-2-21	✓
Surveyor's Initials	J.B.J.	E.T.A.	J.B.J.	✓
Date of Test	6617	342	6622	✓
Superintendent	5-6-18	10-5-18	30-5-18	✓

CHAIN CABLES.										HAWSERS AND WARPS.											
Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE		Length and size per Table 31.		Description.		Makers of Cables.		Where and when tested, and Superintendent.		Material.		Length and size supplied.		Breaking Test of Steel Wire Towline.		Length and size per Table 31.	
Fathoms.	Inches.	Status.	Time.	Supplied.	Per Rule.	Fathoms.	Inches.	Ins.	Dia.							Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
61875	75	2 3/4	36 1/2	120 1/2	182	6 1/2	270	2 3/4	2 1/2	Hampden & Son	Liverpool, W.S. 29-6-18	TOWLINE	120	5	59	120	5	59	120	5	
68126	75	2 3/4	36 1/2	120 1/2	182	6 1/2	270	2 3/4	2 1/2	"	" " " "	HAWSERS & WARPS	2090	2 3/4	15 1/2	2090	2 3/4	15 1/2	2090	2 3/4	
108998	60	2 3/4	36 1/2	120 1/2	142	2-22	210	2 3/4	2 1/2	S. J. Taylor & Co.	Sed. L. H.P. 30-1-18	"	2090	2 3/4	15 1/2	2090	2 3/4	15 1/2	2090	2 3/4	
	210											"	2090	2 3/4	15 1/2	2090	2 3/4	15 1/2	2090	2 3/4	
	Chain Cable reduced from 270 fathoms to 210 fathoms in accordance with Circular No 1304.																				

Boats Ino. Repairs: 28-0. Iron Dugout 18-0  
Pumps, Number One to Four, each "e" den ✓ Diameter of Barrel "e" den State whether they are efficient working order ✓  
Windlass is Combined hand & steam. Clarks, Chapman & Co. Capstan ✓  
Engine Room Skylights.—How constructed? Sheet coaming flaps What arrangements for deadlights in bad weather? Guiltless ✓  
Coal Bunker Openings.—How constructed? Sheet coaming How are lids secured? Wood lashed 2 1/2 Height above deck? 30"  
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c.  
Ceiling in Holds, thickness and material oak over beams 2 1/2 Large Battens, thickness and material 7 x 2 1/2 white wood ✓  
Cargo Hatchways.—How formed? Sheet Crappings 4-0 high 4-4 thick Hatches, if strong and efficient? Yes 3"  
State size No. 1 Hatch (Forward) 32-6 x 20-0 No. 2 Hatch 32-8 x 20-0 No. 3 Hatch 10-10 x 18-0 No. 4 Hatch 34-8 x 20-0  
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch Six in Nos. 1, 2, 4, one in No. 3 Area 20-0 28-2 x 20-0  
No. of Breasthooks 5 No. of Crutches Deep Stron  
Main Rail, material and size 9 x 3-25 ISA Rail steel  
Bulwarks, height above deck and description 3-8 x 2-8  
The foregoing is a correct description RAYLTON DIXON & COMPANY, LIMITED.  
Builder's Signature (here on) J.M. Hamway Director Surveyor's Signature R. W. Spie Surveyor to Lloyd's Register of Shipping.

Correspondence.—State date and initials of letters respecting this case (Reference should be made in any correspondence connected with the case) M. J. m. 15 January 1917 to 27 March 1919

Workmanship. Are the butts of plating planed or otherwise fitted? Planed ✓  
Is the riveted work properly closed? Yes ✓  
Are the liners between the frames and plates solid single pieces? Planed joined ✓ Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes ✓ Are the rivet holes well and sufficiently countersunk in the plate and punched from the facing surfaces? Yes ✓ Do any rivets break into or through the seams or butts of the plating? a few ✓  
Are the butts of Plating, Stringers, &c., properly shifted and strapped? Yes ✓  
Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)? Yes ✓ State results of tests Satisfactory ✓  
Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? Yes ✓ State results of tests Satisfactory ✓  
General Remarks (State quality of workmanship, &c.) Good ✓  
*This vessel has been built in accordance with the approved plans, for Standard. A type vessel with provision for conversion being oil, circular, the Secretary's letter of above dates and in general conformity with the Rules for the class contemplated. The Steam Steering gear, Windlass, Winches, have been tested under steam with satisfactory results. Additional means of steering, by two rope led to wheel on poop provided. Chain cable reduced from 270 - 210 fathoms in accordance with Circular No 1304. Downfall Pump dispensed with. Tunnel Magazine tank has been tested with satisfactory results. The approved plans of stem frame, keelson, plating arrangement, a copy of the Midship Section General Arrangement as built, the Burgess report, are forwarded herewith.*

The Surveyor should state the Number of Report and Name of any Sister Vessel.  
Plans to be forwarded with F.E. Report showing vessel as built.

The amount of Entry Fee ..... £ : Fees applied for, 10/4/1919  
Special Survey Fee....£ 230: 4: 8 Received by me, D.M.C.  
Travelling Expenses, if any £ : ✓ 11/4/1919  
Certificate to be sent to Newcastle-on-Tyne Date of issue 24.4.19.

State whether the Vessel has been built under Special Survey Yes ✓  
I am of opinion this Vessel should be Classed 100 A1  
With, or without Freeboard, as condition of Class Without ✓  
Committee's Minute THU. 17. APR. 1919  
Character assigned 100 A1  
Lloyd's A & B. P.  
+ D.M.C. 4:19 P.D.  
W.C.  
R  
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GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 49 ft., R.Q.D. ☒ ft., Bridge 112 ft., Forecastle 39 ft.  
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ☒

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) 1 D<sup>K</sup> (Steel) *Hand frame*

Official No. 141895 ; Signal Letters ☒ State if Machinery is fitted aft *no*

How are the surfaces preserved from oxidation? Inside *Cement in 2 ft space, Cement wash Paint* Outside *Paint*

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors *Cellular D.B.*

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	126	376	Fore peak tank,	20	123
Double bottom, under Engines and Boilers,	39	157	After peak tank,	24.5	177
Double bottom, if under Engines only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Deep tank, aft,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Double bottom, if under Boilers only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Deep tank, forward,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Double bottom, forward,	180	589	Other tanks, if fitted,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Total capacity of double bottom		1122	(If necessary, furnish further information by sketch.)		

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

State whether the above have been tested as required by the Rules *yes*  
*length 7, upper deck.*

Order for Special Survey No. 1240

Date 25<sup>th</sup> June 1917

No. 616 in builder's yard.

DATES OF SURVEYS  
held while building

1917 Oct 29. 31. Nov 6. 9. 13. 16. 19. 26. 30. Dec 3. 12. 13. 18. 19. 21. 28. 1918 Jan 4. 7. 14. 17. 23. 29. Feb 5. 11. 13. 14. 19. Mar 5. 6. 11. 12. 15. 18. 19. 21. 23. 25. 27. Apr 2. 3. 4. 5. 8. 9. 12. 16. 17. 18. 19. 23. 26. 29. 30. May 1. 8. 11. 13. 14. 15. 16. 17. 22. 27. 28. 30. 31. June 3. 4. 6. 7. 12. 17. 25. July 2. 10. 15. 17. 19. 21. 23. Aug 2. 6. 9. 12. 13. 15. 16. 27. 28. 30. Sep 2. 3. 5. 10. 11. 20. 24. 27. Oct 4. 8. 14. 1. 22. 23. 24. 28. 30. 31. Nov 1. 4. 6. 6. 7. 8. 15. 16. 19. 22. 26. 28. Dec 2. 3. 5. 9. 10. 18. 20. 23. 27. 30. 1919 Jan 7. 8. 10. 13. 15. 21. 29. 30. Feb 10. 12. 17. 21. 24. 28. Mar 3. 5. 7. 11. 14. 17. 18. 19. 20. 21. 24. 25. 26. 27. 28. 29. 31. Apr 1. 2.

Total No. of Visits 164

Surveyor's Signature

Lloyd's Register  
Foundation