

Awning or Shelter Deck,

STEEL STEAMER.

No. 15015

State of Report is also sent on the Machinery of the Vessel *Yes*
 Port of *West Hartlepool* Date of completion of Report *28th October 1914*. Received at London Office *THU. OCT. 29. 1914*
 Survey held at *West Hartlepool*. Date, First Survey *5th Feb 1914*. Last Survey *26th October 1914*.
 On the (State Single, Twin, or Triple Screw) *Steel Single Screw Steamer "NIRVANA" (Yard No. 84) Rig Fore & aft Schooner.*

TONNAGE under Tonnage Deck
 Do. between Tonnage Dk. and 3rd, 4th, or Awning Dk. *5612.20*
 Total under Upper Dk. *140.33*
 Do. of Poop *21.85*
 Do. of Bridge House *28.02*
 Do. of Forecastle *184.44*
 Do. of Houses on Deck *33.75*
 Do. of excess of Hatchways *6020.59*
 Do. above Crown of Engine Room *203.44*
 Gross Tonnage *33.75*
 Space *5778.40*
 Crown of Room *1926.59*
 FOR FEES... *117.31*
 Fine Room
 Ignition Spaces

CLASS + 100 A1 Shelter Deck with freeboard.
 Breadth (greatest moulded) *55.75*
 Depth, at middle of length from top of keel to top of beams at side of uppermost Continuous Deck *29.66*
 Deduct height of 'tween deck when this does not exceed 8ft. *85.41*
 Transverse Number *449.87*
 Length on deck from fore part of stem to after part of sternpost *38423.39*
 Longitudinal Number *25.11*
 Depth "d" at middle of length. See Secs. 2 & 13... *11.94*
 Proportions, Depths to Length, Uppermost Continuous Deck at side to top of keel *15.16*
 " " " Upper Deck at side to top of keel

Master *G. H. A. DENNE*
 Year of Appointment *1914*
 Built at *West Hartlepool*
 When built *1914* Launched *3rd Sept. 1914*
 By whom built *W. Gray & Co. Ltd.*
 Owners *British India Steam Navigation Co. Ltd.*
 Managers *London*
 Residence *Glasgow*
 Port belonging to *Glasgow*

TONNAGE *3768 25/100* **Destined Voyage** *India via Middlebrough* **If Surveyed while Building, Afloat, or in Dry Dock** *Yes*
DEPTH, ACTUAL—Top of Floors to top of Awning or Shelter Dk. Beams *35.05* **No. of Decks with flat laid** *3*
 Do. Upper Deck Beams *27.05* **No. of Tiers of Beams** *3*
 Moulded depth, ft. *37* ins. *8* To Awning or Shelter Dk. **Round up of Uppermost Dk. Beam, Actual** *14* ins.
 Moulded depth, ft. *29* ins. *8* To Upper Dk.

FRAMING.				PILLARS.			
Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.
E. Angles, or E. Bars, amidships	10 3 1/2	5 4	10 3 1/2	5 4	Tube Pillars as per profile and Keelway plan.		
in peaks	7 1/2	3 1/2	7 1/2	3 1/2			
in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	4 4	3 1/2			
" " L at intermdt. Bkts.	8	3 1/2	4 0	8			
g of Frames from centre to centre amidships	26 1/2	✓	26 1/2	✓	Cellular Double Bottom.		
length to collision bulkhead	26 1/2	✓	26 1/2	✓			
of Frames from centre to centre in peaks	24	✓	24	✓			
RSSED FRAME, Angles	3 1/2	3 1/2	4 4	3 1/2			
in way of Double bottoms at Solid Floors	7 1/2	3	4 0	7 1/2			
" " L at intermdt. Bkts.	10	✓	10	✓			
ING, depth of girder	45	✓	45	✓			
RS, depth and thickness of Floor Plate at mid line for 1 length amidships	26 1/2	✓	26 1/2	✓			
in way of Engine and Boiler spaces	45	✓	45	✓			
thickness at the ends of vessel	45	✓	45	✓			
depth at 1/2 the half bth. as per Rule	45	✓	45	✓			
height extended at the Bilges	45	✓	45	✓			
RS, in Cell Double Bottoms	45	✓	45	✓			
state if flanged (top and bottom)	26 1/2	✓	26 1/2	✓			
spacing of Solid	45	✓	45	✓			
IRE GIRDER, in Dbl. bottom, dpth. & thknss	45	✓	45	✓			
" Angles, Top	3 1/2	3 1/2	5 2	3 1/2			
" " Bottom	4 1/2	4 1/2	6 0	4 1/2			
" " to Floors	3 1/2	3 1/2	4 4	3 1/2			
Brackets at intermdt. frmg., wdth & thknss	36	✓	36	✓			
E GIRDERS, number and thickness	Two	✓	Two	✓			
" state if flanged (top & bottom)	3 1/2	3 1/2	4 4	3 1/2			
Angles	37 1/2	✓	37 1/2	✓			
GIN PLATE, depth (exclusive of flange) and thickness	4	4	5 0	4			
Angles to outside plating	3 1/2	3 1/2	4 4	3 1/2			
" to floors	36	✓	36	✓			
Brackets at intermdt. frmg., wdth & thknss	27	✓	27	✓			
Height of Brackets above at bilge	45	✓	45	✓			
ER BOTTOM PLATING, breadth and thickness of Middle Line Strake	E=50 B=56	✓	E=50 B=56	✓			
" thickness in Engine and Boiler space	40	✓	40	✓			
" Remainder in Holds	8	3	4 2	8			
AMS, Awning or Shltr Dk, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel	26 1/2	✓	26 1/2	✓			
Spacing	8	3	4 6	8			
AMS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel	26 1/2	✓	26 1/2	✓			
Spacing	8 1/2	3 1/2	4 8	8 1/2			
AMS, Second, Third & Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel	26 1/2	✓	26 1/2	✓			
Angles on upper edge	26 1/2	✓	26 1/2	✓			
Spacing	26 1/2	✓	26 1/2	✓			
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel	26 1/2	✓	26 1/2	✓			
Angles on upper edge	26 1/2	✓	26 1/2	✓			
Spacing	26 1/2	✓	26 1/2	✓			
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel	26 1/2	✓	26 1/2	✓			
Angles on upper edge	26 1/2	✓	26 1/2	✓			
Spacing	26 1/2	✓	26 1/2	✓			
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel	26 1/2	✓	26 1/2	✓			
Angles on upper edge	26 1/2	✓	26 1/2	✓			
Spacing	26 1/2	✓	26 1/2	✓			

Base Steel Heads No. 2960: 1932 and 1016 tested at Dissulay.

EQUIPMENT No. 41482.61 LETTER 67										ANCHORS.												
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQ. 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.								
18450	1st Power	73	1	14	/			55	10	0	0	72	2	0	Byers' Stockless	Per W. L. Byers & Co. Ltd.	Sld. 25.8.14.	L. Haffner.				
18391	2nd "	72	3	0				55	5	0	0	72	2	0					"	"	" 13.8.14.	"
18392	3rd "	62	1	0				49	12	2	0	62	0	0					"	"	"	"
	Collective weight	208	1	14								207	0	0								
18482	Stream	21	0	0	5	IRON	1	0	21	12	2	0	20	2	0	Common.	S. Taylor & Sons.	Sld. 4.9.14.	L. Haffner.			
18483	Kedge	9	0	14	2	IRON	1	14	11	4	2	21	9	0	0					"	"	"

Patent State Name of Patent

Stockless, State Mechanical Tests.

CHAIN CABLES.													HAWSERS AND WARPS.									
Number of Certificate.	Length and Size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.				Fathoms 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.	Fathoms and size per Table 31.				
	Length.	Diam.	Statu- tory.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.	Length.	Cir.					Length.	Cir.		Length.	Cir.			
7285	300	2 3/8	10 1/2	142 1/2	856.3	13.8	44.1	0	300	2 3/8	Stand link.	S. Taylor & Sons	Sld. 10.9.14. L. Haffner	TOWLINE	Fathoms.	130	5 1/2	Tons.	88	Fathoms.	130	5 1/2
"	6 spare shackles				9. 1. 11.						"	"	"			100	3 1/4	22				
7286	11	2 3/8	10 1/2	142 1/2	32. 1. 2.						"	"	"			100	3	18				
Iron Stream Chain or Steel Wire...	120	5		73					120	5	S.W. Rope.	Hebburn Rope & Sail Works.		"	2/100	8"	12.5	Manila	2/100	8"		
		S.W.												"	2/100	8"	"	"	2/100	8"		

Boats Four Steel Lifeboats (28'-0")
Pumps, Number 2 Vert. flywheel pumps to bilges and Semi-Rotary Hand Pump to Fore Peak Tank.
Windlass is Blanks, Chapman & Co.
Engine Room Skylights.—How constructed? Steel.
Coal Bunker Openings.—How constructed? Steel.
Number of Scuppers, and numbers and dimensions of Freeing Ports, etc. Open Rails and Stanchions.
Ceiling in Holds, thickness and material 2 1/2" Pine at hatches and timbers, Cargo Battens, thickness and material 2" Pine.
Cargo Hatchways.—How formed? Steel plates and angles.
State size No. 1 Hatch (Forward) 19'-10 1/2" x 21'-0" No. 2 Hatches 24'-3 1/2" x 21'-0" No. 3 Hatch 28'-8 1/2" x 21'-0" No. 4 Hatch 28'-8 1/2" x 21'-0"
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch No. 1 = 3. No. 2 and 5 = 4. No. 3 and 4 = 5.
No fore and afters fitted.
Bulwarks, height above deck and description Open Rails and Stanchions. Main Rail and Stays, material and size Open Rails.
The foregoing is a correct description.
Builder's Signature (here only) R. W. Gray & Co. Limited.
Surveyor's Signature Jas. W. Stuart.
Surveyor to Lloyd's Register of British and Foreign Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made in any correspondence connected with the case) 1914 = (M) 21. January, 5.9.19. March; 8.21. April; 25.27. June; 28. September. (E) 3. July.

Workmanship. Are the butts of plating planed or otherwise fitted? Planed and overlapped.
Is the riveted work properly closed? Yes.
Are the liners between the frames and plates solid single pieces? Yes.
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 faying surfaces? Yes.
Do any rivets break into or through the seams or butts of the plating? Very few.
Are the butts of Plating, Stringers, &c., properly shifted and stopped? 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.) This vessel has been built in accordance with the approved plans of Midship Section: Profile: Rudder: Pumping Arrangement: Girder Deck plan: Girder Profile: Stiffening under Tube Pillars: Cargo and Coaling Doors (8 plans): The Secretary's letters enumerated above and in other respects in conformity with the Rules. The materials and workmanship are good. Vessel has been placed in Graving Dock and the bottom and rudder cleaned, examined and recoated.
Vessel is fitted with an Electric Lighting Installation, also the "Marconi" System of Wireless Telegraphy.

The Surveyor should state the Number of Report and Name of any Sister Vessel built or Yard Number of any building.

The amount of Entry Fee £ 5: 0: 0
Special Survey Fee.... £ 169: 9: 0
Travelling Expenses, if any £ : :
Fees applied for, 27/10/1914
Received by me, D.H.K. 28/10/1914
Certificate to be sent to West Hartlepool Date of issue 30/10/14.
State whether the Vessel has been built under Special Survey Yes.
I am of opinion this Vessel should be Classed + 100 A1 Shelter Deck.
With, or without Freeboard, as condition of Class With 7' freeboard.
Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. OCT. 30. 1914
Character assigned 100 A1 (Steel)
Shelter deck with freeboard
Lloyds A & C P
W. Mc 10.11.14
W. H. P.
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GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK. Length of Poop ft., R.Q.D. ft., Bridge ft., Forecastle ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated. Complete Shelter Deck with Tonnage opening aft.

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) 2 Decks (Steel) and Shelter Deck (Steel)

Official No. 136329; Signal Letters ✓ State if Machinery is fitted aft No.

How are the surfaces preserved from oxidation? Inside Portland Cement & paint. Outside Paint.

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors Cell. Dble. Bot.

Where Fitted.	Length.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	154.58	742	Fore peak tank,	✓	113
Double bottom, under Engines and Boilers,	✓	✓	After peak tank,	✓	30
Double bottom, if under Engines only,	26.5	139	Deep tank, aft,		
Double bottom, if under Boilers only,	22.08	111	Deep tank, forward,		
Double bottom, forward,	200.96	820	Other tanks, if fitted,		
Total capacity of double bottom		1812	(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.

Order for Special Survey No. 2181.

Date 21st March 1914.

No. 847 in builder's yard.

DATES of Surveys held while building

1914. Feb 5. 10. 19. 25. 27. March 3. 12. 17. 20. 26. Apr 3. 6. 9. 15. 17. 28. 30. May 9. 11. 15. 27. 29. June 3. 8. 12. 15. 18. 25. 25. 26. July 6. 9. 17. 21. 27. 29. 30. Aug 1. 12. 14. 17. 18. 19. 31. 31. 37. Sep 1. 3. 8. 10. 15. 16. 21. 23. 25. 29. Oct 1. 6. 7. 8. 12. 14. 17. 19. 20. 21. 22. 23. 24. 26.

Surveyor's Signature

Jas. W. Stewart

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Total No. of Visits 70

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