

With or Without Disconnected Erections.

STEEL STEAMER.

THU. NOV. 13. 1913

Received at London Office

State if Report is also sent on the Machinery of the Vessel

Yes

Date of completion of report

12th November 1913 Port of West Hartlepool

Survey held at West Hartlepool

Date, First Survey 5th Feb 1913

Last Survey 5th November 1913

No. 14783

On the (State if Single, Twin, or Triple Screw)

Steel Single Screw Steamer "ORNA" (ex. Shahrinaw No. 18 in R.R.) Rig Schooner

TONNAGE under Tonnage Deck

4456.93

CLASS 4100 A.1.

FEET.

Master P. E. Lyne

Year of appointment

(1) As Master in service of owner of present vessel: 1910
(2) As Master of this vessel: 1913

Do. between Tonnage Dk. and 3rd and 4th Dk.

Total under Upper Dk. 4456.93

Do. of Poop 32.49

Do. of R.Q. Dk.

Do. of Bridge Houses in 19.26

Do. of Forecastle 40.63

Do. of Houses on Dk. 154.24

Do. of excess of Hatchways 49.25

Do. above Crown of Engine Room

Gross Tonnage 4783.13

Less Crew Space 149.94

Less above Crown of Engine Room

Navigation Spaces 42.06

Net Tonnage 3030.50

Net on Beam

Breadth (greatest moulded) 51.29

Depth, at middle of length from top of keel to top of upper deck beams at side 30.00

Transverse Number 81.29

Length on deck from fore part of stem to after part of stern post 380.00

Longitudinal Number 30890.20

Depth "d," at middle of length (See Secs. 2 & 13) 14' 11 1/2"

Proportions—Depths to Length—Upper Deck Beam at side to top of keel 12.66

" " Long Bridge Deck Beam at side to top of keel 10.13

Destined Voyage Middlesbrough

If Surveyed while Building, Afloat, or in Dry Dock Yes

Length on Deck	BREADTH—Moulded	DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams	Second Dk. Beams	No. of Decks with flat laid	No. of Tiers of Beams
380 0	51 3/2	27 7	19 1	Two	Two

Dimensions of Ship per Register, Length	breadth	depth	Moulded depth, ft.	ins.	To Bridge Dk.	Round of Upper Dk. Beam, Actual	ins.
380'	51.5'	24.6'	34	6	13	13	ins.

FRAMING.						PILLARS.					
NAME, Angles or E or L Bars amidships	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.	PILLARS, In 'tween Deck, size and spacing	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.
Do. in peaks	9 1/2	3 1/2	5 1/4	9 1/2	3 1/2	" " Hold	5 1/4	5 1/2	5 1/4	5 1/2	5 1/2
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	4 1/4	3 1/2	3 1/2	" " Quarter 'tween Dks.	—	—	—	—	—
" " at intermdt. Bkts.	5 1/2	3 1/2	4 1/4	5 1/2	3 1/2	" " in Hold	—	—	—	—	—
acing of Frames from centre to centre amidships	26	—	—	26	—	KEELSONS & STRINGERS.					
" " length to Collision bulkhead	26	—	—	26	—	CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate	—	—	—	—	—
" " in peaks	24	—	—	24	—	" Rider Plate	—	—	—	—	—
EVERSED FRAME, Angles	—	—	—	—	—	" Flat Plate Keel Angles	—	—	—	—	—
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	4 1/4	3 1/2	3 1/2	" Horizontal Plates on Floors	—	—	—	—	—
" " at intermdt. Bkts.	5 1/2	3 1/2	4 1/4	5 1/2	3 1/2	" Angles or Bulb Angles	—	—	—	—	—
FRAMING, depth of girder	9 1/2	—	—	9 1/2	—	SIDE KEELSONS, Number	—	—	—	—	—
LOOKS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships	—	—	—	—	—	" Angles or Bulb Angles	—	—	—	—	—
" in way of Engine and Boiler Spaces	E. 55 B. 65	—	—	E. 55 B. 65	—	" Plate above floors, for length	—	—	—	—	—
" thickness at the ends of vessel	—	—	—	—	—	" Intercoastal Plate, for length	—	—	—	—	—
" depth at 1/2 the half breadth, as per Rule	—	—	—	—	—	" Attached to outside Plating with Angle	—	—	—	—	—
" height extended at the Bilges	—	—	—	—	—	BILGE KEELSON, Angles	—	—	—	—	—
LOOKS in Cell. Double Bottoms	42	—	45	42	—	" Intercoastal Plate for length	—	—	—	—	—
" state if flanged (top & bottom)	40	—	—	—	—	" Attached to outside Plating with Angle	—	—	—	—	—
" Spacing of Solid floors	52	—	—	52	—	SIDE STRINGERS, Number	One	—	One	—	—
CENTRE GIRDER, in Dbl. bottom, dpth. & thknss.	42	—	50	42	—	" Angle	6 1/2	3 1/2	6 1/2	3 1/2	6 1/2
" Angles, Top	3 1/2	3 1/2	5 1/4	3 1/2	3 1/2	" Intercoastal Plate, for full length	—	—	42	—	42
" " Bottom	4 1/2	4 1/2	6 1/4	4 1/2	4 1/2	" Attached to outside plating with Angle	Flanged	—	—	—	—
" " to Floors	3 1/2	3 1/2	4 1/4	3 1/2	3 1/2	Upper Deck Stringer Plate, br'dth & thickness (clear of Bridge)	42	54	42	54	42
" Brackets at intermdt. frmng., wdth & thknss	21	—	45	21	—	" " " " br'dth & thickness (in way of Bridge)	42	46	42	46	42
SIDE GIRDERS, number on each side & thickness	42	—	43	42	—	" " " " Angle (clear of Bridge)	5 x 5	64	5 x 5	64	5 x 5
" state if flanged (top and bottom)	40	—	—	—	—	" " Tie Plate at sides of Hatchways	—	—	—	—	—
" Angles (top and bottom)	3 1/2	3 1/2	4 1/4	3 1/2	3 1/2	" Deck * Iron or Steel, for full lng.	—	—	—	—	—
" " to Floors	3	3	4 1/4	3	3	" Thickness (clear of Bridge)	—	51	—	51	—
MARGIN PLATE, depth (exclusive of flange) and thickness	34	—	46	34	—	" " (in way of Bridge)	—	44	—	44	—
" Angles to Outside Plating	3 1/2	3 1/2	4 1/4	3 1/2	3 1/2	" Wood Deck, Material & thickness	—	—	—	—	—
" " Floors	3 1/2	3 1/2	4 1/4	3 1/2	3 1/2	Second Deck Stringer Plate, br'dth & thickness	42	46	42	46	42
" Brackets at intermdt. frmng., wdth & thknss	18	—	45	18	—	" Angles on ditto, No.	3 1/2 x 3 1/2	46	3 1/2 x 3 1/2	46	3 1/2 x 3 1/2
" Height of Outside Brackets above at bilge	24	—	40	24	—	" Tie Plates outside Hatchways	—	—	—	—	—
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	42	—	50	42	—	" Deck * Iron or Steel, for full lng.	—	30	—	30	—
" " in Engine and Boiler space	E. 48 B. 56	—	—	E. 48 B. 56	—	" Wood Deck, Material & thickness	—	—	—	—	—
" " Remainder in Holds	—	—	40	—	—	Third Deck Stringer Plate, br'dth & thickness	—	—	—	—	—
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	8 1/2	3	50	8 1/2	3	" Angles on ditto, No.	—	—	—	—	—
" In way of Long Bridge	—	—	—	—	—	" Tie Plates, outside Hatchways	—	—	—	—	—
" Spacing	26	—	—	26	—	" Deck * Material and thickness	—	—	—	—	—
BEAMS, Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	10	3 1/2	52	10	3 1/2	Fourth and Fifth Deck Stringer Plate, breadth & thickness	—	—	—	—	—
" Spacing	26	—	—	26	—	" Angles on ditto, No.	—	—	—	—	—
BEAMS, Third and Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	—	—	—	—	—	" Tie Plates outside Hatchways	—	—	—	—	—
" Angles on upper edge	—	—	—	—	—	" Deck, Material & thickness	—	—	—	—	—
" Spacing	—	—	—	—	—	Poop Deck Stringer Plate, breadth & thickness	51	42	51	42	51
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	4	3	40	4	3	" Angle on ditto	3 1/2 x 3 1/2	34	3 1/2 x 3 1/2	34	3 1/2 x 3 1/2
" Angles on upper edge	—	—	—	—	—	" Tie Plates	—	—	—	—	—
" Spacing	26 and 24	—	—	26 and 24	—	" Deck, Material and thickness	Steel	42	Steel	42	42
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	8 1/2	3	50	8 1/2	3	Bridge Deck Stringer Plate, br'dth & thickness	53	54	53	54	53
" Angles on upper edge	—	—	—	—	—	" Angle on ditto	4 1/2 x 4 1/2	58	4 1/2 x 4 1/2	58	4 1/2 x 4 1/2
" Spacing	26	—	—	26	—	" Tie Plates	—	—	—	—	—
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	9 1/2	3 1/2	52	9 1/2	3 1/2	" Deck, Material and thickness	Steel	44	Steel	44	44
" Angles on upper edge	—	—	—	—	—	Forecastle Deck Stringer Plate, br'dth & thickness	34	34	34	34	34
" Spacing	52 and 48	—	—	52 and 48	—	" Angle on ditto	3 1/2 x 3 1/2	34	3 1/2 x 3 1/2	34	3 1/2 x 3 1/2
						" Tie Plates	—	—	—	—	—
						" Deck, Material and thickness	Steel	30	Steel	30	30

[illegible]

EQUIPMENT No. 32318-02				LETTER Y.				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.		
		Owts.	lbs.	Owts.	lbs.	Tons.	qrs.	lbs.	Owts.	qrs.	lbs.							
17255	1st Bower ...	61	0	Stockless	-	148	14	2	0	0	0	Bayer's Stockless	W.L. Bayer & Co.	Sls. 25-7-13	L. Haffner			
17254	2nd "	60	2	"	-	148	15	0	0	0	0	"	"	"	"			
17259	3rd "	51	0	"	-	143	3	0	14	50	2	0	"	"	Sls. 28-7-13	L. Haffner		
	4th "	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Collective weight	172	3	4						170	2	0						
17429	Stream	16	2	14	14	0	21	14	18	1	21	16	1	0	Common	S. Taylor & Son	Sls. 13-9-13	A. Green
17430	Kedge	4	0	0	1	3	0	9	5	0	0	4	0	0	"	"	"	

CHAIN CABLES.										HAWSERS AND WARPS.														
Number of Certificate.		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 Ropes.		Length and Size per Table 31.		
		Length.	Diam.	Fathoms.	Inches.	Tons.	qrs.	lbs.	Owts.	qrs.	lbs.	Fathoms.	Inches.					Fathoms.	Inches.	Tons.	qrs.	lbs.	Fathoms.	Inches.
6582	240	2 3/4	8 1/2	120 3/4	645-3-25	645-3-0	240	2 3/4	8 1/2	S. Taylor & Son	Sls. 9-9-13	A. Green	(FLEXIBLE) FLOWLINE S.W.	120	4 3/4	65.5	120	4 3/4	120	4 3/4	120	4 3/4	120	4 3/4
(FLEXIBLE) S.W.	90	4 3/4	-	65.5	-	-	90	4 3/4	-	S.W.	-	-	HAWSERS & WARPS	90	3	18	20	90	8 men					

Steel wires made by Messrs The Steel Rope & Cable Works Ltd.

Boats: Two Skiff Lifeboats (28'0"), two Skiff Lifeboats (22'0") two 1000 lbs lifeboats (22'0").
Pumps: Number 2 Fly wheel Hand Pumps connected to Bilge Suctions.
Windlass: Is Charles Chapman and Co.
Engine Room Skylights: How constructed? Steel Plates and angles. What arrangements for deadlights in bad weather? Leak Slates with Bulbs Eyes.
Coal Bunker Openings: How constructed? Steel plates and angles. How are lids secured? Hatch Bars. Height above deck? 1' 9" x 2' 6".
Freeing Ports, &c. 4 pairs Scupperns (3 fore & 1 aft). 5 pairs freeing ports (2 fore & 3 aft) each 30" x 15".
Cargo Battens, thickness and material 2" 1/2 w.
Ceiling in Holds, thickness and material 2 1/2 p.kine under hatches cover lumber only.
Cargo Hatchways: How formed? Steel plates and angles.
Hatches: If strong and efficient? 3" White Pine.
State size No. 1 Hatch (Forward) 28'-2" x 14'-11"
No. 2 Hatch 28'-2" x 14'-11"
No. 3 Hatch 30'-5" x 14'-11"
No. 4 Hatch 30'-11" x 14'-11"
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch 5 webs to each Hatch, no fore & afters.
No. of Breasthooks Nine
No. of Crutches Four.
Bulwarks, height above deck and description 50 1/2" steel plate
Main Rail, material and size 6 1/2 x 3 1/4 40° Buller angle
The foregoing is a correct description.
Builder's Signature (Here enter)
Surveyor's Signature William M. Wootz
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). See Secretary's letters (in) dated 24-1-13, 6-2-13, 8-2-13, 16-10-13, 18-10-13, 24-10-13 and (f) dated 8-5-13.

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? Yes
Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes
from the faying surfaces? Yes
Do any rivets break into or through the seams or butts of the plating? A few, at butts only.
Are the butts of Plating, Stringers, &c., properly shifted and stopped? Overlapped? 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 steel screw steamer has been built in accordance with the approved plans as amended, the Secretary's letters as above stated and in other respects as required by the Rules.
The vessel has been placed in Dry Dock, Bottom and Rudder cleaned, examined and recoated.
The vessel is a sister ship to the S.S. "OZARDA", Gray's no. 822, no. 592 in the Register Book.

The Surveyor should state the Number of Report and Name of any Sister Vessel.

The amount of Entry Fee £ 5 : 0 : 0
Special Survey Fee £ 140 : 16 : 6
Travelling Expenses, if any £ - : - : -
Fees applied for, 11/11/1913
Received by me, D.M.K.
Date of issue 14/11/13
Certificate to be sent to West Hartlepool

I am of opinion this Vessel should be Classed + 100 A.I.
With, or without Freeboard, as condition of Class Without

Committee's Minute FRI. NOV. 14. 1913
Character assigned 100A1
Lloyd's Reg. Co.
+ L.M.B. 11.13
J.D.

GENERAL REMARKS—(continued)

Rpt. 4.

Date of writing

No. in Sun
Reg. Book.

on

Master *F*

Engines made

Boilers made

Registered

Nom. Horse

ENGINES

Dia. of Cylinders

Is the screw

in the propeller

between the

liners are fitted

Dia. of Tunnel

collars *1/4*

No. of Feed

No. of Bilge

No. of Donk

In Engine

No. of Bilge

Are all the b

Are all conn

Are they fix

Are they eac

What pipes

Are all Pip

Are the Bil

Dates of ex

Is the Scre

BOILER

Total Hea

Working

Can each b

each boiler

Smallest di

Thickness

long, seams

Per centag

Size of com

Length of

Working p

Pitch of st

Material

Material

Diameter

Thickness

Diameter

Pitch ac

thickness

Working

separately

holes

If stiffene

Working

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *25.3* ft., R.Q.D. ☒ ft., Bridge *124* ft., Forecastle *39.7* ft. (wings) *8.7* 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 should appear in the Register Book) *Two skel decks with beams on every frame on each deck.*
Official No. *136261*; Signal Letters ☒ State if Machinery is fitted aft *ho.*
How are the surfaces preserved from oxidation? Inside *Cement and Paint* Outside *Paint.*

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

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	<i>119.16</i>	<i>340</i>	Fore peak tank,	—	—
Double bottom, under Engines and Boilers,	—	—	After peak tank,	<i>34.6</i>	<i>880</i>
Double bottom, if under Engines only,	<i>26.00</i>	<i>110</i>	Deep tank, aft,	—	—
Double bottom, if under Boilers only,	—	—	Deep tank, forward,	—	—
Double bottom, forward,	<i>169.00</i>	<i>590</i>	Other tanks, if fitted,	—	—
Total capacity of double bottom	<i>1040</i>		(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. *2155*
Date *26 March 1913*
No. *830* in builder's yard.
DATES OF SURVEYS held while building
1913. Feb 5. 18. 25. 27. March 3. 6. 10. 14. 17. 31. April 3. 7. 9. 11. 16. 18. 22. 24. 28. 30. May 5. 15. 20. 23. 26. 27. 30. June 9. 11. 17. 25. 30. July 2. 4. 8. 14. 15. 18. 21. 22. 25. 28. 31. Aug. 13. 22. 26. 28. Sep. 2. 4. 8. 9. 10. 11. 12. 18. 22. 23. 24. 26. 29. Oct. 1. 2. 7. 9. 13. 16. 18. 20. 27. 28. 30. 31. Nov. 3. 4. 5.
Total No. of Visits *77*

Surveyor's Signature *William H. Warr*
Lloyd's Register Foundation