

Spar, or Awning Dk.

IRON OR STEEL STEAMER.

No.

21271

Port of SUNDERLAND

Date of completion of Report 14.3.03

Received at London Office

MON. 16 MAR 1903

Survey held at SUNDERLAND

Date, First Survey 6th June, 1902

Last Survey

2nd March 1903

On the STEEL STEAMER

"ZONE" (YARD No 405)

Rig SCHOONER

TONNAGE under

3605.34

Do. between Tonnage Dk. and 3rd, 4th, Spar or Awning Dk.

Total under Upper Dk.

85.87

Do. of Poop

49.19

Do. of Bridge House

121.77

Do. of Forecasts

18.48

Do. of Houses on Deck

33.27

of excess of Hatchways

3913.92

above Crown of

152.34

Tonnage

33.27

above Crown of

3728.11

Tonnage

1252.48

above Crown of

52.99

Tonnage

33.27

above Crown of

2455.94

Tonnage

2455.94

above Crown of

SPAR, AWNING OR PART AWNING-DECKED VESSEL,

on a Vessel having a continuous Shade Deck.

CLASS 100. A.1

Half Breadth (moulded)

24.10

Depth from upper part of keel to top of Main Deck Beams

20.25

Girth of Half Midship Frame (as per Rule)

41.25

1st Number

85.60

Length

358

2nd Number

30644

Proportions—Breadths to Length

7.42

Depths to Length—Main Deck to top of Keel

17.68

Destined Voyage NEWPORT

Master P. T. PERSSON

Year of Appointment

Built at SUNDERLAND

When built 1903

Launched Oct. 28. 1902.

By whom built MESSRS J. L. THOMSON &amp; SONS

Owners MESSRS TURNER, BRIGHTMAN &amp; CO

Managers J. J.

Residence 8.9.10. 5. FEAT ST HELENS. LONDON

Port belonging to LONDON

Surveyed while Building, Afloat, or in Dry Dock UNDER SPECIAL SURVEY

Length on Deck 358 0 Breadth 48 2 1/2 Depth, top of Floors to Spar or Awn. Dk. Beams 24 4 1/2 Main Deck Beams 16 8 1/2 Power of Engines 438 No. of Decks with flat laid Two No. of Tiers of Beams Two & Web Frames.

Dimensions of Ship per Register, Length 360.0 breadth 48.5 depth 24.4 Spar or Awn. Dk. Moulded depth, ft. 19 ins. 3 To Main Dk. Round up of Beam, Main Dk. 12 ins.

FRAMING.				FORGINGS AND CASTINGS.			
Inches in Ship.				Inches in Ship.			
ME, Angles, or L- <del>Bars</del> Bars, for 1/2 length amidships	5 1/2	3 1/2	3 1/2	11	5 1/2	3 1/2	3 1/2
for 1/2 at each end	5 1/2	3 1/2	3 1/2	10	5 1/2	3 1/2	3 1/2
in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	8	3 1/2	3 1/2	8	8
at intermdt. Bkts.	5 1/2	3 1/2	8	3 1/2	3 1/2	8	8
ance of Frames from moulding edge to		24		24			
moulding edge, all fore and aft	3 1/2	3 1/2	8	3 1/2	3 1/2	8	8
VERSE FRAME, Angles, ON TOP OF FLOORS							
IP FRAMING, depth of girder							
ORS, depth and thickness of Floor Plate							
at mid-line for 1/2 length amidships							
in way of Engines and Boilers							
thickness at the ends of vessel							
depth at 1/2 the half-bdth. as per Rule							
height extended at the Bilges							
ORS & BRACKETS, in Cell Dble Bottoms							
Distance apart	48			48			
TRE GIRDER, in Double bottom, depth	42	10		42	10		
and thickness	4	4	9	4	4	9	
Angles, Top	6 1/2	4 1/2	9	6 1/2	4 1/2	9	
Angles, Bottom	Three ea. side	8	Three ea. side	8			
E GIRDERS, number and thickness	3 1/2	3 1/2	8	3 1/2	3 1/2	8	
Angles	34	9		34	9		
GIN PLATE, depth (exclusive of flange)	4	4	9	4	4	9	
and thickness	50	9/16		50	9/16		
ER BOTTOM PLATING, breadth and							
thickness of Middle Line Strake	8 1/6	9/16		8 1/6	9/16		
thickness in Engine and Boiler space							
Remainder in Holds	9	3 1/2	11	9	3 1/2	11	
MS, Spar or Awning Deck, Single Angle,	9	3 1/2	13	9	3 1/2	13	
Bulb Angle, Plate or Tee Bulb							
Angles on upper edge	9	3 1/2	13	9	3 1/2	13	
Average space	48			48			
MS, Main Deck, Single Angle, Bulb	9	3 1/2	13	9	3 1/2	13	
Angle, Plate or Tee Bulb							
Angles on upper edge							
Average space	48			48			
MS, Lower Deck, Single Angle, Bulb							
Angle, Plate or Tee Bulb							
Angles on upper edge							
Average space							
MS, Hold, or Orlop, Plate or Tee Bulb							
Angles on upper edge							
Average space							
MS, Poop Deck, Angle, Bulb Angle, Plate	6	3	8	6	3	8	
or Tee Bulb							
Angles on upper edge							
Average space	24			24			
MS, Bridge Deck, Angle, Bulb Angle, Plate	6	3	8	6	3	8	
or Tee Bulb							
Angles on upper edge							
Average space	24			24			
MS, Forecastle Deck, Angle, Bulb Angle,	9	3 1/2	12	9	3 1/2	12	
Plate or Tee Bulb							
Angles on upper edge							
Average space	48			48			
LARS, In tween Deck, size and spacing	2 1/2	48		2 1/2	48		
Hold	4	48		4	48		
Quarter, tween Dks.,	3 1/2	96		3 1/2	96		
in Hold	5	96		5	96		
B-FRAMES, In Fore Body, No. and spacing	11	SIX SPACES	APART	11			
brdth. & thickness	18	9		18	9		
No. of Side Stringers	18	Two		18	Two		
B FRAMES, In E. & B. Space, No. & spacing	5	FOUR SPACES	APART	5			
brdth. & thickness	18	9		18	9		
B FRAMES, In After Body, No. and spacing	9	SIX SPACES	APART	9			
brdth. & thickness	18	9		18	9		
No. of Side Stringers	Two	18	9	Two	18	9	
Size of Angles or Tee Bars to Web Frames							
BRACKET PLATES to Stringers between							
Web Frames, depth and thickness	18	9		18	9		



## PLATING.

## RIVETING.

STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.		BUTTS.			
	AMIDSHIP.		FORWARD.	AFT.	AMIDSHIP.		Single or Double.	Breadth of Lap.	RIVETS.		Double or Treble and for what Length.	If LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.			Diam.	Spacing or to cr.		
FLAT PLATE KEEL	42	20	13	17	42	20	Double	6	1	4	Quad. Treble	1 3 1/2
GARBOARD OF A STRAKE	54	14	12	13	54	14	"	6	1	4	Treble	1 3 1/2
B "	46	12	10	14	46	12	"	5 1/2	3/8	3 1/2	"	9 10
C "	44 1/2	12	9	14	44 1/2	12	"	"	"	"	Quad.	7/8 3 1/2
D "	46	12	9	14	46	12	"	"	"	"	Treble	3 1/2
E "	53 1/2	12	9	12	53 1/2	12	"	"	"	"	"	9 10
F "	52 1/2	12	9	9	52 1/2	12	"	"	"	"	"	9 10
G "	46	12	9	12	46	12	"	"	"	"	"	9 10
H "	49 1/2	12	9	12	49 1/2	12	"	"	"	"	"	9 10
J "	46	12	9	12	46	12	"	"	"	"	"	9 10
K "	49 1/2	12	9	9	49 1/2	12	"	"	"	"	"	9 10
L "	46	12	9	9	46	12	"	6	1	4	"	9 10
M "	51	14	9	9	51	14	"	6	1	4	Quad.	1 4
N "	46	15	10	10	46	15	"	"	"	"	Treble	1 3 1/2
DOUBLING OF FLAT PLATE KEEL	KEEL AND GARBOARD STRAKES INCREASED IN LINE.											
Length and thickness of Bilges	DOUBLED AT ENDS OF BRIDGE FOR 20 FEET											
Length and thickness of Sheerstrakes												
Length and thickness of Strake below												
POOP SIDES	958				958							
BRIDGE SIDES	7				7							
FORECASTLE SIDES												

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

STEEL PLATES:—**CONSETT. SOUTH DUNHAM ST L.**

STEEL ANGLES:—**PALMERS. DOUGLAS LONG. CONSETT.**

IRON PLATES:—**JOHN HILL & CO.**

IRON ANGLES:—**S. TYZACK & CO.**

FRAMES extend in one length from **CENTRE LINE** to **MARGIN PLATE** AND THENCE TO GUNWALE  
 REVERSED FRAMES on floors and frames extend from **CENTRE LINE** TO **MARGIN PLATE** — 2 SPACING ABOVE

## MASTS, SPARS, &amp;c.

LOWER MASTS.	Fore	Main	Mizen	Material.	Total Length	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.	
						At Partners.	Heel.	Hounds.	Head.		Number.	Size.	Seams.	Butts.
						At Partners.	Heel.	Hounds.	Head.		Number.	Size.	Seams.	Butts.
2509	Fore	Steel	58 7/8	20 x 7/20	16 x 9/20	16 x 9/20	16 x 9/20	16 x 9/20	16 x 9/20	Two.	—	—	Single	Treble
	Main	Steel	58 7/8	20 x 7/20	16 x 9/20	16 x 9/20	16 x 9/20	16 x 9/20	16 x 9/20	Two.	—	—	Do.	Do.
	Mizen	Steel	58 7/8	20 x 7/20	16 x 9/20	16 x 9/20	16 x 9/20	16 x 9/20	16 x 9/20	Two.	—	—	Do.	Do.
Bowspit														
Topmasts, Yards and Remainder of Spars														
Rigging, Material and Size, Shrouds														
Sails.														

EQUIPMENT No. 39282 LETTER W.										ANCHORS. * MECHANICAL TESTS BY J. H. SCHMIDT 23/02. MARCH 5-8-03.									
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK		WEIGHT OF STOCK		TEST, PER CERTIFICATE.		WEIGHT REQ. BY RULE.		Description of Anchor.	Makers.	Where and when tested and Superintendent.		Number.	Size.	Seams.	Butts.	Number.	Size.
		Cwts.	qrs.	lbs.	qrs.	lbs.	qrs.	Cwts.	qrs.										
2509	1st Bower	50	2	0	Stockless	42	13	3	0	50	0	0	0	0	0	0	0	0	0
2508	2nd "	50	2	0	Do.	42	13	3	0	50	0	0	0	0	0	0	0	0	0
2414	3rd "	42	3	7	Do.	37	15	2	14	42	2	0	0	0	0	0	0	0	0
Collective weight		142	3	7				142	2	0									
2514	Stream	12	0	0	3	1	0	13	7	2	0	12	0	0	0	0	0	0	0
2512	Kedge	6	0	0	1	2	7	8	5	0	0	6	0	0	0	0	0	0	0
2nd Kedge																			

## CHAIN CABLES.

## HAWSEERS AND WARPS.

Number of Certificate.	Fathoms.	Size.	Test per Certificate Tons.	WEIGHT OF CHAIN CABLE Supplied.	Fathoms and Size Per Rule.	Description.	Makers of Cables.	When and where tested, and Superintendent.	Material.	Fathoms.	Size.	Breaking Test of Steel Wire Towline.	Fathoms and Size Per Rule.
970	270	2 1/2	107 1/2	5753.16	5732.14	270-2 1/2	Swedish Link & Hartmann & Co. 29/10/02. L.O. W.J. BELL		TOWLINE	120	4 1/2	39	120-4 1/2
									HAWSEER	200	90	2 1/2	200-90-2 1/2
									WARP	200	90	2 1/2	200-90-2 1/2
Iron Strong Chain or Steel Wire	90-4 1/2	39				90-4 1/2							

Boats 2 LIFEBOATS. ONE CUTTER. ONE DINGY  
 Pumps, Number ONE DOWNPORT PUMP 4 1/2" WITH 2 1/2" TAIL PIECE Diameter of Barrel and Tail Pipe  
 Windlass is CLARKS CHAPMAN & CO. Capstan  
 Engine Room Skylights.—How constructed? OF STEEL. HEIGHT ABOVE BRIDGE DECK 8'0"  
 What arrangements for deadlights in bad weather? STEEL FLAPS AND BULBS.  
 Coal Bunker Openings.—How constructed? OF STEEL How are lids secured? CLEANS & BOTTOMS Height above deck? 15' BRIDGE DECK  
 Number of Scuppers, and number and dimensions of Freeing Ports, &c. 7 SCUPPERS EACH SIDE 7 FREEING PORTS EACH SIDE 2'9" x 1'7"  
 Ceiling in Holds, thickness and material 2 1/2" PINE Ceiling 'tween Decks, thickness and material HOLDS INSULATED  
 Cargo Hatchways.—How formed? OF STEEL (USUAL CONSTRUCTION). Hatches, If strong and efficient? Yes.  
 State size No. 1 Hatch (Forward) 20'0" x 11'11" No. 2 Hatch 22'0" x 11'11" No. 3 Hatch 12'0" x 11'11" No. 4 Hatch 22'0" x 11'11"  
 Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch THREE FORE AND AFTERS TO EACH HATCH No. 5 Hatch 22'0" x 11'11"  
 ONE WEB TO NO. 1 HATCH TWO WEBS TO NO. 2, 4, 5. No. of Breasthooks SIX 2'0" x 2'0" No. of Crutches TWO AND DECK FLOORS  
 Bulwarks, height above deck and description 39" 5/20 STEEL PLATES Main Rail, material and size 5 1/2 x 3 x 20 BANGE  
 The above is a correct description of the vessel.  
 Builder's Signature (here only) J. P. Deane  
 Surveyor's Signature J. P. Deane  
 Surveyor to Lloyd's Register of British & Foreign Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case)

M. Apr. 17. 1902 - M. May 14. - M. Jun 14. - E. Aug. 14. - M. Aug. 26. - M. Nov. 3. - M. Dec. 16. - M. Feb. 21. 1903

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 facing surfaces? **Yes** Do any rivets break into or through the seams or butts of plating? **None**

Are the butts of Plating, Stringers, &c., properly shifted and strapped? **Yes**

General Remarks (State quality of workmanship, &c.) **THIS VESSEL HAS BEEN BUILT IN ACCORDANCE WITH THE APPROVED PLANS**

**THE SECRETARY'S LETTERS DATED AS STATED ABOVE, AND IN OTHER RESPECTS IN CONFORMITY WITH THE RULES**

**THE MATERIALS AND WORKMANSHIP ARE GOOD**

**THE VESSEL HAS EIGHT INSULATED CHAMBERS FOR CARRYING FROZEN MEAT. VIZ:—THE FOUR HOLDS AND**

**THE FOUR 'TWEEN DECKS. THE TOTAL INSULATED CAPACITY IS 206.055 CUB. FT. A DETAILED PLAN OF**

**THIS WILL BE FORWARDED. THE MAKER OF THE INSULATING MACHINERY IS THE LIVERPOOL REFRIGERATING CO. LTD.**

**THE TYPE OF ENGINE IS 'AMMONIA COMPRESSOR - HORIZONTAL DUPLEX'**

**NAME OF SYSTEM - BRINE CIRCULATION**

**THE OWNERS OF THIS VESSEL DID NOT WISH THE + R.M.C. CLASS (SEE LETTER ATTACHED TO REPORT)**

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 26'9" ft., R.Q.D. or Break ☒ ft., Bridge Dk. 128'2 ft., F'castle 32'8 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) **10K (S.L.) & SPAR DECK (PT. AN PT. STL) & WEB FRAMES**

Official No. **115968**; Signal Letters

How are the surfaces preserved from oxidation? Inside **PORTLAND CEMENT AND PAINT** Outside **PAINT**

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system **Yes**

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
Double bottom, aft,	122	342.8	Fore peak tank,	—	—
Double bottom, forward,	150	437.9	After peak tank,	12	42.2
Double bottom, under Engines and Boilers,	36	117.1	Midship deep tank,	—	—
Double bottom, if under Engines only,	—	—	Other tanks, if fitted,	—	—
Double bottom, if under Boilers only,	—	—	(If necessary, furnish further information by sketch.)	—	—

State whether the above have been tested as required by the Rules. **Yes**

Order for Special Survey No. 4394	1st. On the several parts of the frame, when in place, and before the plating was wrought	1902—June 6. July 9. 28. Aug. 6. 12. 21. 28. Sep. 3. 5. 30. Oct. 6. 9. 14. 15. 16. 18. 21. 22. 23. 24. 25. 27. 31. Nov. 4. 5. 27. Dec. 3. 9. 11. 12.
Date 17th Feb. 1902	2nd. On the plating during the process of riveting	15. 16. 20. 24. 30. 1903.—Jan. 6. 13. 15. 16. 19. 21. 22. 23. 26. 28. 30.
Order for Ordinary Survey No.	3rd. When the beams were in and fastened, and before the decks were laid	Feb. 9. 13. 18. 19. 20. 24. Mar. 2.
Date	4th. When the ship was complete, and before the plating was finally coated or cemented	
No. 405 in builder's yard	5th. After the ship was launched and equipped	Total No. of Visits 53

The amount of Entry Fee	£ 5 : 0 : 0	14.3.03	Certificate to be sent to <b>Liverpool.</b>
Special Survey Fee	£ 118 : 4 : 0	18.3.03	
Travelling Expenses, if any £	—	18.3.03	
+ 100. A.I. SPAR DECK			
I am of opinion this Vessel should be Classed <b>TUES. 17 MAR. 1903</b>			
With, or without Freeboard, as condition of Class			
Committee's Minute			
Character assigned <b>100 A.I. Steel Spar Deck.</b>			
Surveyor to Lloyd's Register of British and Foreign Shipping.			

Surveyor's Signature **J. P. Deane**  
 Surveyor to Lloyd's Register of British & Foreign Shipping.