

1 or 2 Dks., R.Q. Dk.,
and Pl. Awng. Dk.

IRON OR STEEL STEAMER.

No. 22304.

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

Received at London Office

Date of completion of Report *16th June*

Port of *Sunderland*

Date, First Survey *16th Decr. 1904.*

Last Survey *9th June* 1905

Rig *Fore and aft schooner*

Survey held at *Sunderland*
On the *steel screw steamer*

"VOLMER"

TONNAGE under
Tonnage Deck... *1169.13*

ONE OR TWO DECKED VESSEL.

CLASS *100 A1*

FEET.

Master *N. P. Jorgensen*

Year of appointment *(1) As master in service of
owner of present vessel: 1893
(2) As master of this
vessel: 1905*

Built at *Sunderland*

When built *1905* Launched *18th May*

By whom built *Sunderland S.S. Co. Ltd*

Owners *Aktieselskabet Dampskibsselskabet
Gorm.*

Managers *L. H. Carl*
(Where necessary to be entered in Reg. Book).

Residence *Copenhagen*

Port belonging to *Copenhagen*

Do. of Poop *43.20*

Do. of Raised Qr. *6.16*

Do. of Break. *35.01*

Do. of Forecastle *58.57*

Do. of Houses on Deck *32.04*

Do. of excess of Hatchways *1344.11*

Do. above Crown of *6.52*

Engine Room *1282.59*

Less Crew Space *430.12*

Less above Crown of *25.48*

Engine Room *826.99*

Navigation Spaces

Half Breadth (moulded) *18.16*

Depth from upper part of Keel to top of Main Deck Bms. *19.73*
(with the normal round up of beam)

Girth of Half Midship Frame (as per Rule) *34.92*

1st Number *72.81*

Length on deck from after part of stem to fore part of stern post *238.6*

2nd Number *17372.5*

Proportions—Breadths to Length *6.56*

Depths to Length—Main Deck to top of Keel *12.09*

Destined Voyage *Cronstadt*

If Surveyed while Building, Afloat, or in Dry Dock *Building afloat*

Length on Deck as per Rule *238* Feet. *7* Inches. BREADTH—Moulded *36* Feet. *4* Inches. DEPTH, ACTUAL—Top of Floors to top of Main Deck Beams *16* Feet. *8 3/4* Inches. No. of Decks with Flat laid *one* No. of Tiers of Beams *one*

Dimensions of Ship per Register, Length, *240'* breadth, *36.5'* depth, *16.7* Moulded Depth, *19* ft. *0* ins. Round of Beam, Actual *8 3/4* ins.

FRAMING. Inches in Ship. Inches in Ship. 20ths in Ship. Inches per Rule Or as Approved. Inches per Rule Or as Approved. 20ths per Rule Or as Approved.

FRAME, Angles, *7* E or L Bars, for $\frac{1}{2}$ length amidships *7 1/2* 3 10 *7 1/2* 3 10

Do. for $\frac{1}{4}$ at each end *7 1/2* 3 9 *7 1/2* 3 9

Do. in way of Double Bottoms at Solid Floors *3* 3 8-7 *3* 3 8-7

Do. at intermdt. Bkts. *4 1/2* 3 8-7 *4 1/2* 3 8-7

Spacing of Frames from centre to centre *24* *24*

EVERSED FRAME, Angles *inside tank* *3* 3 7 *3* 3 7

DEEP FRAMING, depth of girder *Deep bulb angle frames*

FLOORS, depth and thickness of Floor Plate *36 1/2* 7 *36* 7

ANG. at mid line for $\frac{1}{2}$ length amidships *7+9* *7+9*

in way of Engines and Boilers *7* *7*

thickness at the ends of vessel *Floors 48" apart except in E. space of 3 1/5 ft.*

depth at $\frac{1}{4}$ the half breadth, as per Rule *7* *7*

height extended at the Bilges *outside*

FLOORS & BRACKETS, in Cell Dble Bottoms *Flanged on upper edge*

state if flanged (top & bottom) *24*

Spacing *36 1/2* 9-8 *36* 9-8

CENTRE GIRDER, in Double Bottom, depth and thickness *3 1/2* 3 1/2 9 *3 1/2* 3 1/2 9

Angles, Top *4* 4 10-9 *4* 4 10-9

Bottom *3* 3 7 *3* 3 7

SIDE GIRDERS, number on each side & thickness *3* *3*

state if flanged (top & bottom) *no flanging*

Angles *3* 3 7 *3* 3 7

MARGIN PLATE, depth (exclusive of flange) and thickness *25 1/2* 7 *25* 7

Angles to Outside Plating *3 1/2* 3 1/2 8 *3 1/2* 3 1/2 8

Floors *3* 3 7 *3* 3 7

Height of Floors at the Bilges *56 1/2* *56 1/2*

INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake *55 1/2* 8-7 *36* 8-7

thickness in Engine and Boiler space *8 1/2* *8 1/2*

Remainder in Holds *8* *8*

BEAMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate or Tee Bulb *6* 3 8 *6* 3 8

Angles on Upper Edge *6 1/2* 3 9 *6 1/2* 3 9

Spacing *24* *24*

BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb *6 1/2* 3 9 *6 1/2* 3 9

Angles on Upper Edge *24* *24*

Spacing *24* *24*

BEAMS, Hold, Plate or Tee Bulb *6* 3 9 *6* 3 9

Angles on Upper Edge *48* *48*

Spacing *48* *48*

BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb *6* 3 9 *6* 3 9

Angles on Upper Edge *48* *48*

Spacing *48* *48*

BEAMS, Bridge or Pl. Awng. Deck, Angle, Bulb Angle, Plate, or Tee Bulb *7 1/2* 3 9 *7 1/2* 3 9

Angles on Upper Edge *5 1/2* 3 7 *5 1/2* 3 7

Spacing *48* *48*

BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb *7 1/2* 3 9 *7 1/2* 3 9

Angles on Upper Edge *48* *48*

Spacing *48* *48*

PILLARS, In 'tween Decks, Size and Spacing *2 1/2* 48 *2 1/2* 48

Hold *3 1/4* *3 1/4*

Quarter, 'tween Dks., " *3 1/4* *3 1/4*

in Hold " *3 1/4* *3 1/4*

WEB FRAMES, In Fore Body, No. and Spacing *1 as per plan* *1 as per plan*

Brdth. & Thickness *15* *8* *15* *8*

WEB FRAMES, In E. & B. Space, No. & Spacing *1 as per plan* *1 as per plan*

Brdth. & Thickness *15* *8* *15* *8*

WEB FRAMES, In After Body, No. and Spacing *1 as per plan* *1 as per plan*

Brdth. & Thickness *15* *8* *15* *8*

No. of Side Stringers " *1 as per plan* *1 as per plan*

Size of Angles or Tee Bars to Web Frames *5 1/2* 3 1/2 9 *5 1/2* 3 1/2 9

BRACKET PLATES to Stringers between Web Frames, Depth and Thickness *5 1/2* 3 1/2 9 *5 1/2* 3 1/2 9

FORGINGS AND CASTINGS. Inches in Ship. Inches in Ship. 20ths in Ship. Inches per Rule Or as Approved. Inches per Rule Or as Approved. 20ths per Rule Or as Approved.

KEEL, Bar or Side Plates, depth and thickness *8 1/2 x 2 3/8* *8 1/2 x 2 3/8*

STEM, moulding and thickness *8 1/2 x 5* *8 1/2 x 5*

STERN-POST for Rudder do. do. *Cast steel* *8 1/2 x 5* *8 1/2 x 5*

for Propeller *8 1/2 x 5* *8 1/2 x 5*

MAIN PIECE of Rudder, diameter at head *6 1/4* *6 1/4*

do. at heel *4 1/4 x 4 3/8* *4 1/4 x 4 3/8*

RUDDER, how constructed *Cast steel, single plate 18/20*

Can the Rudder be unshipped afloat? *Yes*

KEELSONS AND STRINGERS. Inches in Ship. Inches in Ship. 20ths in Ship. Inches per Rule Or as Approved. Inches per Rule Or as Approved. 20ths per Rule Or as Approved.

CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate

Rider Plate *5 1/2* 3 1/2 9-8 *5 1/2* 3 1/2 9-8

Bulb Plate to Intercoastal Keelson *5 1/2* 3 1/2 9-8 *5 1/2* 3 1/2 9-8

Horizontal Plates on Floors *5 1/2* 3 1/2 9-8 *5 1/2* 3 1/2 9-8

Angles *5 1/2* 3 1/2 9-8 *5 1/2* 3 1/2 9-8

SIDE KEELSON, Angles *5 1/2* 3 1/2 9-8 *5 1/2* 3 1/2 9-8

Bulb or Plate above floors for lng. *5 1/2* 3 1/2 9-8 *5 1/2* 3 1/2 9-8

Intercoastal Plate for length *5 1/2* 3 1/2 9-8 *5 1/2* 3 1/2 9-8

Attached to outside plating with Angle *5 1/2* 3 1/2 9-8 *5 1/2* 3 1/2 9-8

BILGE KEELSON, Angle *5 1/2* 3 1/2 9-8 *5 1/2* 3 1/2 9-8

Bulb or Plate above floors for lng. *5 1/2* 3 1/2 9-8 *5 1/2* 3 1/2 9-8

Intercoastal Plate for length *5 1/2* 3 1/2 9-8 *5 1/2* 3 1/2 9-8

Attached to outside plating with Angle *5 1/2* 3 1/2 9-8 *5 1/2* 3 1/2 9-8

BILGE STRINGER Angles *5 1/2* 3 1/2 9-8 *5 1/2* 3 1/2 9-8

Bulb Plate for length *5 1/2* 3 1/2 9-8 *5 1/2* 3 1/2 9-8

Intercoastal Plate for length *5 1/2* 3 1/2 9-8 *5 1/2* 3 1/2 9-8

Attached to outside plating with Angle *5 1/2* 3 1/2 9-8 *5 1/2* 3 1/2 9-8

2 SIDE STRINGERS Angles *5 1/2* 3 1/2 9-8 *5 1/2* 3 1/2 9-8

Bulb Intercoastal Plate for full lng. *5 1/2* 3 1/2 9-8 *5 1/2* 3 1/2 9-8

Attached to outside plating with Angle *5 1/2* 3 1/2 9-8 *5 1/2* 3 1/2 9-8

Main and Raised Quarter Deck Stringer Plate, breadth and thickness *34 1/2 x 6 29* *34 1/2 x 6 29*

Angle on ditto *4 1/2 x 4 1/2* *4 1/2 x 4 1/2*

Tie Plates, outside Hatchways *4 x 4* *4 x 4*

Diagonal Tie Plates on Bms., No. of Pairs *6* *6*

Main Dk* Iron or Steel for full lng. *6* *6*

R. Q. Dk* Iron or Steel for lng. *6* *6*

Wood Deck, Material & thickness *6* *6*

Lower Deck Stringer Plate, breadth and thickness *42* *8* *40* *8*

Angles on ditto, No. *3 1/2 x 3 1/2* *7* *3 1/2 x 3 1/2* *7*

Tie Plates *10* *6* *10* *6*

Deck, Material and thickness *Steel* *6* *6*

Bridge or Pl. Awng. Deck Stringer Plate, breadth and thickness *42* *8* *40* *8*

Angles on ditto *3 1/2 x 3 1/2* *7* *3 1/2 x 3 1/2* *7*

Tie Plates *10* *6* *10* *6*

Deck, Material and thickness *inside houses* *W.P. 9 x 2 1/2* *W.P. 2 1/2*

Forecastle Deck Stringer Plate, brdth & thcknss *24* *6* *22* *6*

Angle on ditto *3 1/2 x 3 1/2* *6* *3 1/2 x 3 1/2* *6*

Tie Plates *10* *6* *10* *6*

Deck, Material and thickness *Pitch pine* *5 x 3* *P.P. 5 x 3*

* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.

BULKHEADS. Number. In Vessel. Per Rule. Thickness. Horizontal. Size. Spacing. Vertical. Size. Spacing. Single or Double Frames. Height up.

W.T. BULKHEADS *4* *4* *6* *✓* *Flange 10 1/2 x 30 Dble 4 ft. 0 in.*

PARTITION " *2021*

LONGITUDINAL " *Are the outside Plates doubled two spaces of Frames in length? Joggled plating*

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

PLATING.										RIVETING.									
AS IN SHIP.					PER RULE OR AS APPROVED.					UPPER EDGES.					BUTTS.				
STRAKES.					AMIDSHIP.					Single or Double.					RIVETS.				
Breadth.					Thickness.					Diam.					Spacing.				
FLAT PLATE KEEL (If Bar Keel, state Riveting)					36 14 11 11					36 14					Double 5 3 3 3 3 R. full.				
GARBOARD OF A Strake					53 11 10 10					11					4 9 2 1/2 1/2 3/8				
B "					60 9 9 8					10					4 9 2 1/2 1/2 3/8				
C "					54 11 11 8					10					4 9 2 1/2 1/2 3/8				
D "					53 10 9 8					10					3 8 1/2 full.				
E "					47 1/2 10 8 8					10					4 9 2 1/2 1/2 3/8				
F "					54 10 8 8					10					4 9 2 1/2 1/2 3/8				
G "					46 10 8 8					10					4 9 2 1/2 1/2 3/8				
H "					54 11 8 8					11					4 9 2 1/2 1/2 3/8				
I "					40 14 9 9					40 14					Single 3 2 1/2 3/4 3 2 1/2 3/4				
J "					34 7					7					Double at ends of Bridge				
K "					50 7					7					Double at ends of Bridge				
L "																			
M "																			
N "																			
O "																			
P "																			
DOUBLING OF Flat Plate Keel																			
Length and thickness of Bilges					Plating increased 19' 6" x 20' at ends of bridge														
Length and thickness of Sheerstrakes																			
Length and thickness of Strake below																			
POOP SIDES					6					6					Single 2 1/2 3/4 3 2 1/2 3/4				
RAISED QUARTER DECK SIDES																			
BRIDGE SIDES					as above														
FORECASTLE SIDES					6														
LENGTHS OF PLATING					9 frame spaces														

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, outside Plating, &c. ? *Plates, South Durham 345.00*
Lonsdale Iron Co. & Clydebridge Steel Co.
Bars: Glasgow 145.00, Lanarkshire Stl Co. Palmers 98.10
Stell. Coy. of Scotland & Lonsdale 30.00
 Has the Steel been tested as required by the Rules? *Yes*

FRAMES extend in one length from *centre line* to *margin plate thence to gunwale* state if ordinary or joggled *Yes*
 REVERSED FRAMES on floors and frames extend from *Deep hull angle framing* state if ordinary or joggled *Yes*
Rev. frames in Tank, double in engine space & under boiler beams.

MASTS, SPARS, &c.

LOWER MASTS.	Material.	Total length.	DIAMETER AND THICKNESS.		At Partners.	Heel.	Hounds.	Head.	No. of Plates in round.	RIVETING.		
			Feet.	Inches.						Seams.	Butts.	
Fore	Steel	57-6	17 1/2	20	13 1/2	4 1/2	13 1/2	4 1/2	✓	Two	Single	Double
Main	"	53-3	18 1/2	"	16 1/4	"	"	"	✓	"	"	"
Mizen	"	"	"	"	"	"	"	"	"	"	"	"

How built? *Wood.*
 Topmasts, Vangs and Remainder of Spars *Wood.*
 Rigging, Material and Size, Shrouds *Galv. stl. wire fore & main 3/8", Backstays 2". Stays fore & main 3", Topmast 2".*
 Sails. *One* Suit of Sails and the following spare sails. *None.*

Equipment No. *18894* Letter *p.*

ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, EX STOCK.		WEIGHT OF STOCK.		TEST, PER CERTIFICATE.		WEIGHT REQUIRED BY TABLE 22.		Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	Cwts.			
6468	1st Bower	30	3	7	29	5	2	14	30	2	0	Byers Stockless
6479	2nd "	28	3	0	27	13	3	0	28	1	0	"
6482	3rd "	28	2	14	27	11	3	14	28	1	0	"
	Collective weight	88	0	21	84	0	0					
6532	Stream	8	0	0	10	2	2	0	7	3	0	Common
6520	Kedge	4	1	14	6	15	0	0	4	1	0	"

Drop and mechanical tests applied to cast steel anchors heaviest at Walsingham by Lt. Camp. Ball on 8th Nov. 1904 at Amersley K. Haas.

CHAIN CABLES.

Number of Certificate.	Length and size supplied.	Test per Certificate.	WEIGHT OF CHAIN CABLE.		Length & Size per Table 22.	Description.	Makers of Cables.	When and where tested and Superintendent.
			Supplied.	Per Table 22.				
7471	240 1 1/2	47 1/2	66 1/2	320-2-5	319-1-7	240 1 1/2 Link	5 Taylor Sons Ltd. 28-14-05 W. J. Relf.	
	also 3 spare shackles			1-1-0				

HAWSERS AND WARPS.

Number of Certificate.	Length and size supplied.	Test per Certificate.	Length & Size per Table 22.	Description.	Makers of Cables.	When and where tested and Superintendent.

Boats. *2 Lifeboats & 1 dingy*
 Pumps, Number *1* *Hydraulic pump* *1* to fore peak tank Diameter of Barrel *5 1/2* inches State whether they are in efficient working order *Yes*
 Windlass is of iron, steam, makers *Emerson, Walker & Thompson Bros.* Capstan *5* steam winches.
 Engine Room Skylights.—How constructed? *Steel plates & angles*
 What arrangements for deadlights in bad weather? *Strong bulbo eyes*
 Coal Bunker Openings.—How constructed? *Stl. Plates & angles* How are lids secured? *Battens & tarpaulins* Height above deck? *18"*
 Number of Scuppers, and number and dimensions of Freeing Ports, &c. *3 scuppers for 13 aft, 3 freeing ports for 13 aft 32" x 18" on each side.*
 Ceiling in Holds, thickness and material *2 1/2" white pine*
 Cargo Hatchways.—How formed? *Steel plates and angles.* Cargo Battens, thickness and material *9" x 2" white pine*
 State size No. 1 Hatch (Forward) *20' x 15'* No. 2 Hatch *24' x 15'* No. 3 Hatch *24' x 15'* No. 4 Hatch *21' x 15'*
 Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch *1 web plate in No. 1 hatch, 2 webs in No. 2-3-4.*
 3 fore & afters in all hatches.
 No. of Breasthooks *4* & dup floors No. of Crutches *18* dup floors
 Bulwarks, height above deck and description *Steel 42" x 20. Bull plate stays 7 1/2", 6 ft. Main Rail and Stays, material and size A.A. 6" x 3 1/2"*
 The above is a correct description.
 Builder's Signature (here only) *Robert Howie* Surveyor's Signature *Robert Howie*
 Surveyor to Lloyd's Register of British and Foreign Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with the case) *M. 2-12-04, E. 13-2-05*

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*
 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? *A very 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. 23, par 24)? *Yes* State results of tests *Satisfactory*
 Have all the gutterways been tested as required by the Rules (Sec. 23, par. 25)? *Yes* State results of tests *Satisfactory*
 General Remarks (State quality of workmanship, &c.) *This vessel has been built in accordance with the approved plans forwarded herewith, the Secretary's letters referred to above and in general conformity with the Society's Rules and Regulations for the class contemplated.*
The materials used in the vessel's construction are good and the workmanship is good.
Three reports on castings and forgings are forwarded herewith.

This is a sister vessel to the S.S. "Vagn" and S.S. "Skjold" the same Builders *W. 22344* (with slight amendments as shown on the accompanying approved plans) *Std. 1st Entry* Reports *W. 21797 & 21832.*
 The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *18 1/2* ft., R.Q.D. or Break *✓* ft., Bridge Dk. *68* ft., F'castle *28 1/2* ft. (in feet and tenths) where the Poop is on top of the R.Q.D., or when the Poop or R.Q.D. is joined to the B.D., this should be distinctly stated
The poop is not joined to the Bridge.

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) *15" (stl.) and deep framing.*
 Official No. *230*; Signal Letters *no* State if Machinery is fitted aft *no*
 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.	Water Capacity.	Where fitted.	*Length.	Water Capacity.
Double bottom, aft,	Feet.	Tons.	Fore peak tank,	Feet.	Tons.
Double bottom, under Engines and Boilers,	70	135	After peak tank,		60
Double bottom, if under Engines only,	34	75	Deep tank, aft,		31
Double bottom, if under Boilers only,			Deep tank, forward		
Double bottom, forward,	99	182	Other tanks, if fitted,		
			(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. *4537*
 Date *29. 11. 04*
 No. *230* in builder's yard
 DATES OF SURVEYS held while building
1904:—Decr; 16, 19, 21, 29. —1905:—Jan; 4, 6, 9, 12, 19, 24, 25, 26, 27, 30, Feb; 1, 3, 6, 8, 10, 13, 15, 16, 17, 20, 22, 24, 27, Mar; 1, 2, 6, 8, 14, 16, 17, 20, 22, 24, 28, 31, Apr; 6, 12, 14, 18, 20, 28, May, 3, 5, 12, 15, 17, 19, 23, 25, 29, 30, 31, June 2, 5, 6, 8, 9.
 Total No. of Visits *61.*

The amount of Entry Fee *£4 0 0*
 Special *£57 1 6*
 Travelling Expenses, if any *✓*
 State whether the Vessel has been built under Special Survey *Yes*
 I am of opinion this Vessel should be Classed *100A1.*
 With, or without Freeboard, as condition of Class *Without*
 Fees applied for, *16th June 1905*
 Received by me, *23/6/05*
 Certificate to be sent to *Sunderland Office.*
 Robert Howie
 Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute
 Character assigned
 TUES. 20 JUN 1905
100A1 (steel)
Lloyd's & Co. P. W. + L.M. 6.6.05.