

With or Without Disconnected Erections.

STEEL STEAMER.

Received at London Office WED. 15 OCT 1921

Date of completion of report 15th October 1921. Port of *Walmö*
Survey held at *Limhammar* Date, First Survey, Last Survey 8th October 1921

On the (State if Single, Twin or Triple Screw) *Single Screw Steamer "WATERWAY"* Rig 3 Mast S.
CLASS *100 A.1.* (EX "MERCIA").

TONNAGE under
Tonnage Deck... 569.47
Do. between Tonnage Dk. and 3rd and 4th Dk. 569.47
Total under Upper Dk. 116.16
Do. of Poop 22.74
Do. of R.Q.Dk. 30.05
Do. of Bridge House 23.33
Do. of Forecastle 22.74
Do. of Houses on Dk. 30.05
Do. of excess of Hatchways 23.33
Do. above Crown of Engine Room 761.75
Gross Tonnage 82.58
Less Crew Space 193.65
Less above Crown of Engine Room 4.76
TONNAGE FOR FEES 28.03
Less Engine Room 193.65
Less Navigation Spaces 4.76
" Peak Tank 28.03
Register Tonnage 452.73
as cut on Beam

Breadth (greatest moulded) 30.51
Depth, at middle of length from top of keel to top of upper deck beams at side 15.00
Transverse Number 45.51
Length on deck from fore part of stem to after part of stern post 178.16
Longitudinal Number 8108
Depth "at" middle of length (See Secs. 2 & 13) 12.33
Proportions—Depth to Length—Upper Deck Beam at side to top of keel 11.88
" " Long Bridge Deck Beam at side to top of keel

Year of appointment (1) As Master in service of owner of present vessel: 19 (2) As Master of this vessel 19
Built at *Limhammar*
When built 1921 Launched 7th April 1921.
By whom built *Limhammars Skeppswaro, A.B.*
Owners *Waterway Steamships (Cardiff) Ltd.*
Managers *Cory & Blundell*
Residence *Cardiff*
Port belonging to *Cardiff*

Destined Voyage If Surveyed while Building, Afloat, or in Dry Dock *yes*

LENGTH on Deck as per Rule	Feet.	Inches.	BREADTH—Moulded	Feet.	Inches.	DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams	Feet.	Inches.	No. of Decks with flat laid	Feet.	Inches.	No. of Tiers of Beams
178	2		30	6		Do. do. do. do. Second Dk. Beams	12	11 1/2	One			One
Moulded depth, ft. ins. To Bridge Dk. Round of Upper Dk. Beam, Actual 7 1/2 ins.												

FRAMING.						PILLARS.					
FRAME, Angles, on E or L Bars amidships	Inches in Ship.	Inches in Ship.	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.	Inches in Ship.	Inches in Ship.
Do. in peaks	160	80	14	160	75	" Hold at hatch ends	2 1/2				
Do. in way of Double Bottoms at Solid Floors	125	75	8.5	125	75	" Quarter 'tween Dks., " "	160x65x7.5-10.5	180x70x8-11 1/2			
Do. in way of Double Bottoms at intermdt. Bkts.	75	75	7.5	75	75	" in Hold " "	I	face plate 180x12 1/2			
Spacing of Frames from centre to centre amidships	600			600							
Do. " " from # 1 length to Collision bulkhead in peaks	600			600							
Reversed Frame, Angles, on A.P. 1569	100	75	10								
Do. in way of Double Bottoms at Solid Floors	65x65x7.5-9			65x65x7.5-9							
Do. " " at intermdt. Bkts.	75x75x7.5-9			75x75x7.5-9							
FRAMING, depth of girder	160			160							
FLOORS, depth and thickness of Floor Plate at mid-line for # length amidships											
Do. in way of Engine and Boiler Spaces											
Do. thickness at the ends of vessel											
Do. depth at 3/4 the half breadth, as per Rule											
Do. height extended at the Bilges											
FLOORS in Cell, Double Bottoms	7.5-6.5 B.S. 9.5			7.5-6.5 B.S. 9.5							
Do. state if flanged (top & bottom)	Not flanged										
Do. Spacing of Solid floors	Alternate frames										
ENTRE GIRDER, in Dbl. bottom dpth & thickness	810x9-7.5-11			810x9-7.5-11							
Do. Angles, Top	100x100x10.11.5			100x100x10.11.5							
Do. Bottom	90 90 10			90 90 10							
Do. to Floors	65x65x7.5-9			65x65x7.5-9							
Do. Brackets at intermdt. frmg., width & thkness	750x7.5-9.5			750x7.5-9.5							
IDE GIRDERS, number on each side & thickness	One 7.5-6.5 9.5			One 7.5-6.5 9.5							
Do. state if flanged (top and bottom)	Not flanged										
Do. Angles (top and bottom)	65x65x7.5-9			65x65x7.5-9							
Do. to Floors	65x65x7.5-9			65x65x7.5-9							
MARGIN PLATE, depth (exclusive of flange) and thickness	700x7.5-9.10.5			7.5-9-10.5							
Do. Angle to Outside Plating	75x75x8.5-10			75x75x8.5							
Do. Floors	65x65x7.5-9			65x65x7.5-9							
Do. Brackets at intermdt. frmg., width & thkness	750x7.5-9.5			750x7.5-9.5							
Do. Height of Outside Brackets above at bilge	52.5			52.5							
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	750x9.5-8.10.5			9.5-8.10.5							
Do. in Engine and Boiler space	ES. 9. B.S. 10.5			ES. 9 B.S. 10.5							
Do. Remainder in Holds	7.5			7.5-7							
BEAMS, Upper Deck, Single Angle, Bulb	160x80x14.9			150x75x8.5 B. 2							
Do. Angle, Plate, Tee Bulb, or Channel	130x75x8.9			130x75x8.9							
Do. In way of Long Bridge	On every frame										
Do. Spacing											
BEAMS, Second Deck, Single Angle, Bulb											
Do. Angle, Plate, Tee Bulb, or Channel											
Do. Spacing											
BEAMS, Third and Fourth Deck, Single Angle, Bulb											
Do. Angle, Plate, Tee Bulb, or Channel											
Do. Angles on upper edge											
Do. Spacing											
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	100x65x7			100x65x7							
Do. Angles on upper edge	75x75x10			75x75x10							
Do. Spacing	On every frame										
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel											
Do. Angles on upper edge											
Do. Spacing											
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	140x75x8.5			140x75x8							
Do. Angles on upper edge											
Do. Spacing	On every frame										

KEELSONS & STRINGERS.					
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.
Rider Plate					
Flat Plate Keel Angles					
Horizontal Plates on Floors					
Angles or Bulb Angles					
SIDE KEELSONS, Number					
Angles or Bulb Angles					
Plate above floors, for length					
Intercoastal Plate, for length					
Attached to outside Plating with Angle					
BILGE KEELSON, Angles					
Intercoastal Plate for length					
Attached to outside Plating with Angle					
SIDE STRINGERS, Number					
Angle					
Intercoastal Plate, for length					
Attached to outside plating with Angle					
Upper Deck Stringer Plate, br'dth & thickness (clear of Bridge)	1350x11-8			11-8	
Do. br'dth & thickness (in way of Bridge)	13 in way of Poop post				
Do. Angle (clear of Bridge)	90x90x11-8			90x90x11-8	
Do. Tie Plate at sides of Hatchways					
Deck, Iron or Steel, for full length	6.5			6.5	
Thickness (clear of Bridge)	Strake, abstract Plate, 9 1/2 in. and 10 1/2 in. in way of poop post				
Do. (in way of Bridge)	8-7			8-7	
Wood Deck, Material & thickness					
Second Deck Stringer Plate, br'dth & thickness					
Angles on ditto, No.					
Tie Plates outside Hatchways					
Deck, Iron or Steel, for full length					
Wood Deck, Material & thickness					
Third Deck Stringer Plate, br'dth & thickness					
Angles on ditto, No.					
Tie Plates, outside Hatchways					
Deck, Material and thickness					
Fourth and Fifth Deck Stringer Plate, breadth & thickness					
Angles on ditto, No.					
Tie Plates outside Hatchways					
Deck, Material & thickness					
Poop Deck Stringer Plate, breadth & thickness	1275x7.5			7	
Angle on ditto	65x65x7				
Tie Plates					
Deck, Material and thickness	Steel 7-6			7-6	
Bridge Deck Stringer Plate, br'dth & thickness					
Angle on ditto					
Tie Plates					
Deck, Material and thickness					
Forecastle Deck Stringer Plate, br'dth & thickness	7-6			7-6	
Angle on ditto	65x65x7.5				
Tie Plates					
Deck, Material and thickness	Steel 7-6.5			6	

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

7610-262500-0197

1922

WEB FRAMES. WEB-FRAMES, In Fore Body, No. and spacing. No. of Side Stringers. WEB-FRAMES, In E. & B. Space, No. and spacing. WEB-FRAMES, In After Body, No. and spacing. No. of Side Stringers. BRACKET PLATES to Stringers between Web Frames, depth and thickness. BULKHEADS. W.T. BULKHEADS. COLLISION PARTITION. LONGITUDINAL. FORGINGS or CASTINGS. KEEL, Bar, depth and thickness. STEM, moulding and thickness. STERN-POST for Rudder do. do. for Propeller. RUDDER-A x D" Table 22. Speed. Main-Piece, diameter at head. at heel. RUDDER, how constructed. Thickness of Plates or Single Plate. Can the Rudder be unshipped afloat? 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. Has the Steel been tested as required by the Rules? PLATING. STRAKES. AS IN SHIP. PER RULE OR AS APPROVED. EDGES. BUTTS. RIVETING. BUTTS. IF LAPPED. THICKNESS OF SHEET PILE. CLEAR OF LONG BRIDGE. DO. OF STRAKE BELOW. DELG. of Flat Plate Keel. Sheerstrakes. Length and thickness. POOP SIDES. SHORT BRIDGE SIDES. FORECASTLE SIDES. Upper Deck Stringer Plate. Second Deck Stringer Plate. FRAMES extend in one length from. REVERSED FRAMES on floors and frames extend from. MASTS, SPARS, &c. LOWER MASTS. Bowsprit. Topmasts, Yards and Remainder of Spars. Riggings, Material and Size, Shrouds. Sails. Suit of.

EQUIPMENT No. 8667. 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. 10856 1st Bower. 10857 2nd. 11046 3rd. 10505 4th. 10504 Kedg. Particulars of Drop Test of Cast Steel Anchors, viz.: Weight, Surveyor's Initials, Number of Certificate, Date of Test. CHAIN CABLES. HAWSERS AND WARPS. Boats. Steering Gear, Steam. Steering Gear, Hand. Pumps, Number. Windlass. Engine Room Skylights. Coal Bunker Openings. Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. Ceiling in Holds, thickness and material. Cargo Hatchways. State size No. 1 Hatch (Forward). No. 2 Hatch. No. 3 Hatch. No. 4 Hatch. Number of Web Plates, Shifting Beams and Fore and Afters. Bulwarks, height above deck and description. The foregoing is a correct description. Builder's Signature. Correspondence. Workmanship. Is the riveted work properly closed? Are the liners between the frames and plates solid single pieces? to plate, &c., conform well to each other? from the faying surfaces? Are the butts of Plating, Stringers, &c., properly shifted and staggered? Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)? Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? General Remarks (State quality of workmanship, &c.). Committee's Minute. Character assigned. 10001 subject. Lloyd's a.s.b.P. L.M.B. 10.21. Lloyd's Register Foundation.

GENERAL REMARKS—(continued).

N^o 2 hatch side coaming on starboard side requires to be permanently repaired where laminated between the hull and N^o 14 web.
The builder stated that the repair would be done at Gothenburg, which port the vessel proceeded to from timber.
The Gothenburg have been advised fully of the case.

Owners additions.

Beltting constructed of elm-wood (8" x 7") fitted between any bars (90 x 90 x 9/16) on the sides of the vessel in line with the upper deck from frame N^o 28 to frame N^o 79.

Cranked steel bulkhead (steel) fitted between engine and boilers extending from frame N^o 16 on starboard side to bulkhead in bulkhead on N^o 18 frame port side.

Wood bulkhead 60 ft thick fitted in hold on N^o 55 frame.

By request of the builder a special survey was held on the 7th inst. until 9.30 pm. to which the undersigned attended:

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 55.62 ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle 20.21 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) 1 Dk (Stk) & 1 L B.

Official No. ; Signal Letters

State if Machinery is fitted aft yes.

How are the surfaces preserved from oxidation? Inside Cement & Paints

Outside Red Lead & Patent Compound

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

Where Fitted.	Length.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
Feet.	Tons.	Feet.	Tons.	Feet.	Tons.
Double bottom, aft,	—	—	Fore peak tank,		55 1/2
Double bottom, under Engines and Boilers,			After peak tank,		25 1/2
Double bottom, if under Engines only,	25.58	26	Deep tank, aft,		
Double bottom, if under Boilers only, Dry Tanks	11.83	✓	Deep tank, forward,		
Double bottom, forward, of boiler room.	106.25	166	Other tanks, if fitted,		
	Total capacity of double bottom	192	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks 42.66

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

Order for Special Survey No.

Date

No. 14 in builder's yard.

DATE of Surveys held while building

27/9, 4/10, 19/10, 21/10, 26/10, 11/11, 16/12 1920 7/1, 7/1, 11/1, 24/1, 10/2, 12/3, 14/3, 1/4, 6/4, 15/4, 9/5, 13/5, 17/5, 24/5, 30/5, 2/6, 3/6, 9/6, 17/6, 4/7, 5/7, 6/7, 13/7, 11/8, 11/8, 20/8, 1/9, 29/9, 30/9, 4/10, 5/10, 7/10, 8/10 1921

Surveyor's Signature

F. R. Palmer.

© 2021

Lloyd's Register Foundation

40