

STEEL STEAMER or MOTORSHIP.

Received at London Office 13 JUL 1925 JUL 13 26

State if Report has been sent on the Freeboard of the Vessel *Freeboard not required*State if Report is sent on the Machinery of the Vessel *No*

Date of completion of report

23-7-26

Port of

Glasgow

No.

45810

Survey held at

Glasgow

Date First Survey

8 May 1925

Last Survey

22 July

19

26

On the

"STORSTEN"

Single Screw

Machinery aff.

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings)

Full Scantling

State Type of Erections

Pop, Bridge, etc.

TONNAGE under Tonnage Deck

4553.65

CLASS + 100 A1

State if with freeboard as condition of Class

No

Built at

Scotoun Glasgow

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)

L

388

Launched

12 May 1926

Yard No. 613

Builders

Baird & Co Ltd

Owners

Tonsberg Rederi A/S

Managers

(Where necessary to be entered in Reg. Book.)

Residence

Tonsberg Norway

Port of Registry

TÖNSBERG

If surveyed while building, afloat, or in dry dock

While building, afloat, and in Dry Dock.

REGISTERED DIMENSIONS.

FEET.

Length

388.5

Breadth

52.7

Depth

29.0

Framing Depth "d" at middle of length. See Sec. 3 (1d)

D

29.25

Proportions—Depth to Length—Uppermost continuous deck to top of keel

13.26

Draught Moulded

24'-2 1/4"

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	<i>Longitudinal Framing</i>		Bracket Floors, Frame		
" " from 1/2 length to Collision bulkhead			" " Reversed Frame		
" " in peaks	7 3/2	.44	" " Vertical Struts		
SIDE FRAMING.			Centre Girder, depth and thickness amidships	60	.50
Frame Amidships, Angle, E or F	6 3/2	.38	" " top Angles	3 1/2 3 1/2	.56
" " In Bridge	7 3/2	.42	" " bottom Angles	4 1/2 4 1/2	.56
" " Extends up to	6 3/2	.42	Side Girders, No. each side and thickness	200	.46
" " In Forecastle	3 1/2	.38	Margin Plate depth (excl. of flange) and thickness		.75
Reversed Frame Amidships, Angle, E or F	7 3/2	.44	" " Vertical Angle to Tank side		
" " BA Angle Extends up to	7 3/2	.44	Bracket abaft 1/2 len. from stem		
Depth of Framing Girder			" " Vertical Angle to Tank side		
Frames in Uppermost Continuous 'tween Decks, Angle, E or F			Bracket forward 1/2 len. from stem		
" " Second 'tween Decks, Angle, E or F			" " Gussets, spacing and scantling		
" " Third " " "			abaft 1/2 len. from stem		
Framing in Peaks, Angle or E	7 3/2	.44	" " Gussets, spacing and scantling		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships			forward 1/2 len. from stem		
State if Frame Joggled			Tank Side Brackets, height above base line at toe of Frame and thickness		
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	<i>Stamps as per approved plan</i>		INNER BOTTOM PLATING. In E.R. only.		
STRENGTHENING OF BOTTOM FORWARD. State Particulars	<i>Forward 11 Struts, Plating & Thickness</i>		Breadth and thickness of Middle Line Strake	63	1.25
SINGLE BOTTOM.			Thickness of remainder in Holds		.75
Floors, Depth and thickness at mid-line in Holds			Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?		
Height of Brackets at side above base line at toe of frame			BEAMS.		
Middle Line Keelson, on Floors, Angles, E or F			Uppermost Continuous Deck, amidships	8	.42
" " Through Plate or Intercoastal Plate			" " in Wells, Angle, E or F		
" " Foundation Plate on Floors			" " in way of Bridge, Angle, E or F		
" " Flat Plate Keel Angles			Spacing	24	
Side Keelsons, No. each side			Second Deck, amidships, Angle, E or F	9 1/2	.56
" " thickness of Intercoastal Plate			Spacing	48	
" " Angles			Third Deck, amidships, Angle, E or F		
DOUBLE BOTTOM. In Engine Room (ap)			Spacing		
Solid Floors, thickness and spacing	.46		Fourth Deck, amidships, Angle, E or F		
" " Are Frame and Reversed Frame joggled?	<i>Frame only</i>		Spacing		
Bracket Floors, breadth and thickness at middle line			Pop Deck, Angle, E or F	7	.42
" " breadth and thickness at margin plate			Spacing	22 1/2, 27	.24
			Bridge Deck, Angle, E or F	8	.42
			Spacing	28 1/2, 30	
			Forecastle Deck, Angle, E or F	7	.42
			Spacing	28 1/2, 27, 24	

1140

	INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.
PILLARS , No. of Rows.....					Stringer Plate, breadth and thickness in way of Bridge	84	x	42	
" in 'tween Decks, Size and Spacing.....					Thickness of Plating abreast Deck openings in way of Wells			40	
" " " " "					Thickness of Plating abreast Deck openings in way of Bridge			40	
" in Holds " "					Thickness of Plating within line of openings...			40	
" " " " "					If Sheathed, material and thickness			No Sheathing	
Centre Line Bulkhead.	7	3	.34	2p	Third Deck.				
Stiffeners and Spacing.....	10	3 1/2	.54	3k	Stringer Plate, breadth and thickness.....				
Plating, thickness of .....	.50	6k	.34	3p.	If Plated, state thickness.....				
STRINGERS AND DECKS.					Fourth Deck.				
Uppermost Continuous Deck.					Stringer Plate, breadth and thickness.....				
Stringer Plate, breadth and thickness in Wells	70	x	.66		If Plated, state thickness				
" " " " in way of Bridge	70	x	.66		Poop Deck.				
" Angle in Wells	6	6	.68	6 x 5 x 68	Stringer Plate, breadth and thickness	54	x	34	
Thickness of Plating abreast Deck openings in way of Wells .....	.44	.58			Plating, Sheathing, material and thickness ...	.34	0 Pls	3"	
Thickness of Plating abreast Deck openings in way of Bridge					Bridge Deck.				
Thickness of Plating within line of openings...	.40				Stringer Plate, breadth and thickness.....	60	x	40	
If Sheathed, material and thickness	No Sheathing				Plating, Sheathing, material and thickness ...	.40	0 Pls	3" Composition to inside.	
Second Deck.					Forecastle Deck.				
Stringer Plate, breadth and thickness in Wells...	84	x	42		Stringer Plate, breadth and thickness.....	45	x	34	
					Plating, Sheathing, material and thickness ...	.26	0 Pls	3"	

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if joggled?			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.		
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL	47	.92	.66	.66	Plating on Stem frame and floor plates increased 2 ft. 6 in. from poop to fore'tle	Double	1 1/8	4	3 R.	1 1/8	4	Double Strap	
„ DBLG. (if any)	84					Double	7/8	3 1/8	4 R.	7/8	3 1/2	Lapped	
BOTTOM PLATING, No. of Strakes	67	.60	.60	.46		„	7/8	3 1/8	4 R. (lower)	7/8	3 1/2	„	
BILGE PLATING, No. of Strakes	78	.58	.46	.46		„	7/8	3 1/8	3 R. (upper)	7/8	3 1/8	„	
SIDE PLATING, No. of Strakes	66	.58	.44	.44		„	7/8	3 1/8	3 R.	7/8	3 1/8	„	
UPPER DECK, Sheer- strake in Wells	69	.96	.50	.44		„	1 1/8	4	5 R.	1 1/8	5	„	
UPPER DECK, Sheer- strake in Bridge ...	69	1.12	„	„		„	1 1/8	4	5 R.	1 1/8	5	„	
STRAKE BELOW Sheer- strake in Wells	70	.72	.44	.44		„	1	3 1/2	4 R.	1	4	„	
STRAKE BELOW Sheer- strake in Bridge ...	70	.72	„	„		„	1	3 1/2	4 R.	1	4	„	
POOP SIDE PLATING	81	„	„	.38		Single	7/8	3 1/2	2 R.	3/4	2 3/4	„	
BRIDGE SIDE PLATING ...	50	.50	„	„	Double	7/8	3 1/2	2 R.	7/8	3 1/8	„		
FORE'TLE SIDE PLATING	48	„	.40	„	Single	7/8	3 1/2	2 R.	3/4	2 3/4	„		

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3c) 120T 2WT. (see below)

Deck next below. *Once O.T. to 3rd Nat.*

(AT) 9 Shoo to Upper Bk and 3 to main deck at sides & Top of trunk at Centre.
As per Rule

~~As per Rule~~

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings, Spacing.		Scantlings, Spacing.	
MIDSHIP BULKH'D, Upper tween decks		3/8			BA 6" x 3" = 40	32.
"	" Second "	✓				
"	" Third "	✓				
"	" Holds	3/8" - 5/8"	3/4" = 40	2 inch side	6" x 3" = 40 BA 10" x 3" = 48 BA 6" x 3" = 36 BA	30
COLLISION " (in Hold)		3/8" - 5/8"			7" x 3" = 40 BA	24
AFTER PEAK " "		3/8" - 1/2"	1 1/2" x 3" = 32 3/4" x 3" = 30	2 1/2" 2 1/4"	BA 6" x 3" = 36	24

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	✓	✓	✓	✓
STEM		$10\frac{1}{2} \times 2\frac{3}{4}$	Boston	
STERN FRAME {	Propeller Post	Cast $11\frac{1}{2} \times 10\frac{1}{2} \times 7\frac{1}{2}$	6 Strandmat	
	Rudder "	Steel $9 \times 7\frac{1}{2}$	16 Strandmat	
RUDDER—A×D		4×2		
Speed of Vessel		$10\frac{1}{2}$		
RUDDER mainpiece at head ...	Forged Iron	$9\frac{1}{2}$	Cleveland	
" " heel ...		$7\frac{1}{2}$	Wilmington	
" how constructed	One piece as to mainpiece			
" double or single plate	Single plate			
" coupling, vertical or horizontal	Horizontal			

STEEL. Manufactr'r's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Siemens Martin Open hearth process. Kinningross Iron Works Co, Steel Co of Scotland, Glasgow

Has the Steel been tested as required by the Rules? Yes.

GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

This Vessel is similar to the S.S. *Nausica* and the S.S. *Stena* built by the North of Ireland Shipbuilding Co., Londonderry, and Messrs Swan, Hunter, and Wiggin Richardson respectively.

Approved plans forwarded herewith

Midship Section as built (forwarded in advance)

Midship Section

General Arrangement of end

Ridge and Ballast Arrangement

Upper deck plating aft of frame 35

Bulkhead 35 web & shelf plate in way of trunk

Stemplate and Rudder

Quadrant and Tiller

Modification to stiffening at E.R. bulkhead

Shell expansion aft frame 35

Transverse 60 and OT Bulkhead 61

Transoms at aft end

Keel and Centre Keelson aft

Double bottom aft

Framing aft of frame 35

Aft body longitudinal

Proposed modification to Cant frames and Transom

O.T. W.C. bulkhead aft

Main deck plating aft

Poop Deck plating

Forecastle beam knees

Large oil pumping arrangement (2 plans)

Forward Pumping arrangement

Alterations to Aft Diaphragm Plate

Plan of Tiller

Forging reports of Tiller, Rudder Frame, & Stem Frame.

Particulars of Drop Test of Cast Steel Anchors, viz.:—
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower	360-19-86.	K.H.	3201	13-11-24
2nd "	36-2-27	K.H.	2759	8-2-24
3rd "	31-1-24	K.H.	2177	29-10-24

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 85 ft., R.Q.D. ✓ ft., Bridge 27 ft., Forecastle 61.5 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 2 Dks Steel

Official No. ✓ ; Signal Letters ✓ Is bottom of Vessel coated with cement ✓ if not given particulars of composition ✓

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft, Under engines	61	208	Fore peak tank,	18	56
Double bottom, under Engines and Boilers,			After peak tank,	10	27
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank forward, No 1	18	174
Double bottom, forward,			Other tanks, if fitted, No 2	28	415
Total capacity of double bottom		208	(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. 5745

Date

11.2.26

Dates of Surveys held while building

1925. May F. 21-27 June 10-12-17-22-26 July 1-6-9-13-20 Aug 4-10-12-18-19-21 Sept 5-10-13-21-23 Oct 2-6-9-12-14-15-21-23-29 Nov 2-4-11-15-19-22-24-25-26-30 Dec 1-9-11-16-22-29
1926. Jan 12-19-20-26 Feb 2-9-15-16-17-18-19-22-23-24-25-26 Mar 12-2-4-5-6-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26 Apr 2-6-8-13-22 May 3-5-7-12 June 14-24 July 5-8-13-15-16-17-18-19-20-21-22-23-24-25-26 Aug 2-6-8-13-22 Sept 3-5-7-12 Oct 2-6-8-13-22 Nov 3-5-7-12 Dec 2-6-8-13-22
Total No. of Visits 10

83/100. Flywheel dia. none filled. Weight. Means of ignition. Kind of fuel used. Thickness parallel to axis. 16 3/4. 16 1/2. 30.5 (Pt)

M.V. "STORSTEN" Glasgow Report N. 45810.
PARTICULARS OF LONGITUDINAL FRAMING.

FRAMING.		AMIDSHIPS.			ENDS.			AMIDSHIPS.			ENDS.			RIVETING.						
		In Ship.			In Ship.			Per Rule or as approved.			Per Rule or as approved.			Rivets in Longitudinal Frames.		Spacing of Rivets on each side of Transverses and Bulkheads.	Rivets in Brackets to Bulkheads.			
		Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Diam.	Speng.		Number.	Diameter.		
																			Inches.	Inches.
g of []																				
s in Bridge 'tween Decks ...		Transverse Framing																		
s from Uppermost Continuous Deck		No. 1	7	3 1/2	.40	7 1/2	3 1/2	.36	7	3 1/2	.40	7	3 1/2	.36	7/8	5 1/4	5 1/4	7	7/8	
		" 2	7	3 1/2	.40	7	3 1/2	.36	7	3 1/2	.40	7	3 1/2	.36	-	-	-	7	-	
		" 3	8	3 1/2	.40	7 1/2	3 1/2	.40	8	3 1/2	.40	7 1/2	3 1/2	.40	-	-	-	7	-	
		" 4	8 1/2	3 1/2	.42	8	3 1/2	.42	8 1/2	3 1/2	.42	8	3 1/2	.42	-	-	-	8	-	
used 1/2 in Depth		" 5	9	3 1/2	.44	8 1/2	3 1/2	.44	9	3 1/2	.44	8 1/2	3 1/2	.44	-	-	4 for 10 rivets	8	-	
of raised trunk		" 6	9 1/2	3 1/2	.44	9	3 1/2	.44	9 1/2	3 1/2	.44	9	3 1/2	.44	-	-	-	10	-	
		" 7	10	3 1/2	.44	9 1/2	3 1/2	.44	10	3 1/2	.44	9 1/2	3 1/2	.44	-	-	-	10	-	
		" 8	10	3 1/2	.48	10	3 1/2	.44	10	3 1/2	.48	10	3 1/2	.44	-	-	3/8 for 10 rivets	10	-	
		" 9	10 1/2	3 1/2	.50	10	3 1/2	.50	10 1/2	3 1/2	.50	10	3 1/2	.50	-	-	-	16	-	
		" 10	12 x 525 x 4 x 4 x .625			12 x 525 x 4 x 4 x .625			12 x 525 x 4 x 4 x .625			12 x 525 x 4 x 4 x .625			-	-	-	14	-	
		" 11	12 x 64 x 4 x 4 x .625			12 x 60 x 4 x 4 x .625			12 x 64 x 4 x 4 x .625			12 x 60 x 4 x 4 x .625			-	-	-	16	-	
		" 12	15 x 152 x 4 x 4 x .63			15 x 152 x 4 x 4 x .63			15 x 152 x 4 x 4 x .63			15 x 152 x 4 x 4 x .63			-	-	-	12	-	
		" 13	-			-			-			-			-	-	-	On deck	-	
		" 14	-			-			-			-			-	-	-	12	-	
		" 15	Side, 46 x .40			Top angle, 3 1/2 x 3 1/2 x .40			Double Bth angle, 3 1/2 x 3 1/2 x .40			Single			-	-	-	28	-	
Chambers 19 to		" 16	15 x 152 x 4 x 4 x .63			15 x 152 x 4 x 4 x .63			15 x 152 x 4 x 4 x .63			15 x 152 x 4 x 4 x .63			-	-	-	On deck	-	
			2'-6"						2'-6"									619	12	
g of		Amidships																		
adinal		At Ends				2'-0 to 2'-6"						2'-0 to 2'-6"								
nes																				
Tank Top Longitudinals			✓	BA	8	3	.44		✓	BA	8	3	.44	7/8	5 1/4					
Bottom			✓	C	15 x 152 x 4 x 4 x .63			✓	C	15 x 152 x 4 x 4 x .63										
g of Longitudinals		Amidships																		
		At Ends...				30-24						30-24								
Transverses.																				Rivets in Lugs to Shell Diam. Speng.
idge		Depth and Thickness	Transverse Framing																	
Decks		Face Angles																		
		Lugs to Shell*																		
		Depth and Thickness	18-24 x	.40		18-24 x	.40 x .38		18-24 x	.40		18-24 x	.40 x .38							
		Face Angles	4	3 1/2	.44	4	3	.44	4	3 1/2	.44	4	3	.44						
		Lugs to Shell* log lap	3 1/2	3 1/2	.40	3 1/2	3 1/2	.40	3 1/2	3 1/2	.40	3 1/2	3 1/2	.40	7/8	4				
		Depth and Thickness	26	x	.46	26	x	.50 FORD	26	x	.46									
		Face Angles	6 1/2	3 1/2	.54	6 x 4 x .60 FORD			6 1/2	3 1/2	.54									
		Lugs to Shell* log lap	6	6	.46	6 x 6 x .44 AFT			6	6	.46				7/8	4				
		Brackets	.40	x	.46	.44	x	.50	.40	x	.46									
of Transverse Frames			9'-6"			9'-0" head space			9'-6"											
State if joggled or liners.						9'-6" to 9'-0" head														
																				Spacing.
udinal		Bridge Deck	✓												In Ships.			As approved.		
		Upper	7	3	.36	7	3	.36	7	3	.36	7	3	.36	Transverse	11' x .40	4 x 3 1/2 x .40			
		Second	7	3	.38	7	3	.38	7	3	.38	7	3	.38	Beams.	18' x .40	18' x .40			
		Third														20' x .40	20' x .40			

particulars of framing in peaks (if ordinary), Floors, Centre Girder, Side Girders and Margin Plate and their angle attachments, etc., to be entered in their respective places provided for on the Report Forms.
NOTE:—This slip to be pasted on the fourth page of the Report, and reference to same to be made under framing, etc., on the first page.
less, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules
W219-0236 3/3