

## STEEL STEAMER or MOTORSHIP.

Received at London Office... 12 1938

State if Report has been sent on the Freeboard of the Vessel yesState if Report is sent on the Machinery of the Vessel yesDate of completion of report 25<sup>th</sup> June 1938.Port of CopenhagenNo. 10617.Survey held at AalborgDate First Survey 9th September 1932 Last Survey 21st June

1938

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw)

Single Screw Steamer "Lotta"

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

Complete Superstructure "with Tonnage opening aft."State Type of Erections ForecastleTONNAGE under Tonnage Deck... 1573.64CLASS 100 A1 State if with freeboard as condition of Class yesBuilt at Aalborg

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

Length from fore part of stem to after part of stern most on summer L.W.L. See Sec. 3 (1a) 128' 6"Launched 22nd April 38 Yard No. 58

Total

Breadth (greatest moulded) B 43' 6"Builders Aalborg Værft A/SGross Tonnage 1858.32Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 19' 8"Owners A/S. VesterhavetRegister Tonnage 1014.161st Longitudinal Number (L x D) = 7648Managers J. Lauritzen

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

2nd Numeral L x (B + D) = 19893Residence Copenhagen

## REGISTERED DIMENSIONS. FEET.



Length 280.70Framing Depth "d," at middle of length. See Sec. 3 (1d) 16.62Breadth 43.60Proportions—Depth to Length—Uppermost continuous deck to top of keel 10.17Port of Registry EsbjergDepth 17.50Draught Moulded 19' 1 1/2"If surveyed while building, afloat, yes in dry dock

## 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	24"	✓ ✓	Bracket Floors, Frame	7 3 1/2 .38	6 1/2 .32 ✓
" " from 1/2 length amidships to Collision bulkhead	24"	✓ ✓	" " Reversed Frame	6 3 .38	✓
" " in peaks	24"	✓ ✓	" " Vertical Struts	6 3 .44	6 .3 .38 ✓
SIDE FRAMING.			Centre Girder, depth and thickness amidships	35 .46	✓ ✓
Frame Amidships, Angle, E or F	8 3 .46	✓ ✓	" " top Angles	3 3 .40	✓ ✓
" " Extends up to upper deck on altern. frame and cut down to 6" r.b.	8 3 .40	✓ ✓	" " bottom Angles	3 1/2 3 1/2 .44	✓
Reversed Frame Amidships, Angle	✓	✓	Side Girders, No. each side and thickness	.33	.32 ✓
" " Extends up to	✓	✓	Margin Plate depth (excl. of flange) and thickness	33 .41	✓
Depth of Framing Girder	8"	✓ ✓	" " Vertical Angle to Tank side	3 1/2 3 1/2 .33	single ✓
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	6 1/2	✓ ✓	" " Bracket abaft 1/2 len. from stem	3 1/2 3 1/2 .44	"
" " Second 'tween Decks, Angle, E or F	4 1/2 3 .36	owners requirement on alternate frame.	" " Vertical Angle to Tank side	3 1/2 3 1/2 .33	double ✓
" " Third " " " "	✓	✓	" " Bracket from forward 1/2 len. from stem to Panting Area	✓	✓
" " from 1/2 len. for'd. to 15% len. from Stem	6 3 1/2 .34	✓ ✓	" " Gussets, spacing and scantling abaft 1/2 len. from stem	✓	✓
" " in Peaks, Angle or F	6 3 .32	✓ ✓	" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	✓	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4, 5/4 sp.	✓ ✓	Tank Side Brackets, height above base line at toe of Frame and thickness	60 .37	✓ ✓
State if Frame Joggled	yes	✓	INNER BOTTOM PLATING.		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	yes	✓	Breadth and thickness of Middle Line Strake	47 .42	✓ ✓
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	yes	✓	Thickness of remainder in Holds	65 .35	.52 ✓
	3 bottom strakes 1/2 L. to Coll. Bhd. 49 2 extra side girders 1/2 L.	✓	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?	yes	✓
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships in Wells, Angle, E or F	7 3 .34	6 1/2 .3 .34 ✓
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, E or F	✓	✓
Middle Line Keelson, on Floors, Angles, [ or ]			Spacing	24"	✓ ✓
" " Through Plate or Intercoastal Plate			Second Deck, amidships, Angle, E or F	8 3 .44	✓
" " Foundation Plate on Floors			Spacing	7 3 .40	6 1/2 .3 .40 ✓
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, E or F	24"	✓
Side Keelsons, No. each side			Spacing		
" " thickness of Intercoastal Plate			Fourth Deck, amidships, Angle, E or F		
" " Angles			Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle, E or F		
Solid Floors, thickness and spacing	.33 48" sp.	✓ ✓	Spacing		
" " Are Frame and Reversed Frame joggled?	yes	✓ ✓	Bridge Deck, Angle, E or F		
Bracket Floors, breadth and thickness at middle line	30 .33	✓ ✓	Spacing		
" " breadth and thickness at margin plate	60 .33	✓ ✓	Forecastle Deck, Angle, E or F	6 3 .38	✓ ✓
			Spacing	5 3 .32	24" ✓



## PILLARS AND DECKS.

	INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.			INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.	
<b>PILLARS, No. of Rows.....</b>					Stringer Plate, breadth and thickness in way of Bridge .....	✓		✓	
"    in 'tween Decks, Size and Spacing.....	180	180 + 9 + 14 <sup>in</sup> / <sub>16</sub> ✓ E.W.	✓		Thickness of Plating abreast Deck openings in way of Wells .....	.30	✓	✓	
"    "    "    "    "					Thickness of Plating abreast Deck openings in way of Bridge .....	✓		✓	
"    in Holds		335-280 + 11.5 + 17.5 <sup>in</sup> / <sub>16</sub> ✓ to 220 220 + 11.5 + 17.5 ✓	✓		Thickness of Plating within line of openings...	.30	✓	✓	
"    "    "    "    "					If Sheathed, material and thickness .....	✓		✓	
<b>Centre Line Bulkhead.</b>					<b>Third Deck.</b>				
Stiffeners and Spacing.....		✓	✓		Stringer Plate, breadth and thickness.....				
Plating, thickness of .....		✓	✓		If Plated, state thickness.....				
<b>STRINGERS AND DECKS.</b>					<b>Fourth Deck.</b>				
<b>Uppermost Continuous Deck.</b>					Stringer Plate, breadth and thickness.....				
Stringer Plate, breadth and thickness in Wells	48 + .38 ✓	46 + .38 ✓	✓		If Plated, state thickness .....				
"    "    "    "    in way of Bridge		✓	✓		<b>Poop Deck.</b>				
"    Angle in Wells .....	3 1/2 3 1/2 .38 ✓	✓	✓		Stringer Plate, breadth and thickness .....				
Thickness of Plating abreast Deck openings in way of Wells .....	.34	✓	✓		Plating, Sheathing, material and thickness ...				
Thickness of Plating abreast Deck openings in way of Bridge Houses .....	.30	✓	✓		<b>Bridge Deck.</b>				
Thickness of Plating within line of openings...	✓	✓			Stringer Plate, breadth and thickness.....				
If Sheathed, material and thickness .....	✓	✓			Plating, Sheathing, material and thickness ...				
<b>Second Deck.</b>					<b>Forecastle Deck.</b>				
Stringer Plate, breadth and thickness in Wells...	44 + .34 ✓	✓	✓		Stringer Plate, breadth and thickness.....	38 + .34	✓	✓	
					Plating, Sheathing, material and thickness ...	.30	✓	✓	

## SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged? <i>no</i>	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 .....	46	.59✓	.55✓	.53✓	✓	Double	7/8	3 3/8✓	3 ✓	1	2 3/4✓	strapped	
„ DBLG. (if any)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BOTTOM PLATING, No. of of Strakes <i>A.B.C.D.</i>	59	.44✓	.49✓	.42✓	✓	Double	3/4	3	✓ 3 ✓	3/4	2 5/8✓	lapped	
BILGE PLATING, No. of Strakes ..... <i>E.....</i>	59	.44✓	.50✓ <i>F. 50</i>	.44✓	shell plating	„	3/4	3	✓ 3 ✓	3/4	2 5/8✓	„	
SIDE PLATING, No. of Strakes <i>F.G.H.I.</i>	55	.44✓	.52✓ <i>I. 52</i>	.41✓	in way of	„	3/4	3	✓ 3 ✓	3/4	2 5/8✓	„	
UPPER DECK, Sheer- strake in Wells.....	51	.50✓	.41✓	.41✓	ice strengthening 66.	„	3/4	3	✓ 3 ✓	3/4	2 5/8✓	„	
UPPER DECK, Sheer- strake in Bridge ...	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
STRAKE BELOW Sheer- strake in Wells.....	51	.50✓	.41✓	.41✓	✓	Double	3/4	3	✓ 3 ✓	3/4	2 5/8✓	lapped	
STRAKE BELOW Sheer- strake in Bridge ...	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
POOP SIDE PLATING .....	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BRIDGE SIDE PLATING ...	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
FORE'TLE SIDE PLATING	✓	✓	.42✓	✓	✓	Single	3/4	3	✓ Single	3/4	2 5/8✓	✓	

## WATERTIGHT BULKHEADS.

## FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—		Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
Extending to Upper Deck (Sec. 3 c)	1 ✓	Stem lower part	Forg. 8x24		
„ Deck next below	3 ✓	KEEL, Bar part above	Cast 8x24		
As per Rule	4 ✓	STEM upper part	steel plate .64		.60 ✓
		STERN FRAME {	Propeller Post	Cast 5 5/8	Varde ✓
			Rudder „	10x10 1/2	Staalwerk ✓
		Speed of Vessel	11.5		
		RUDDER—Type			
		„ A x D	283		
		„ Diam. of head	Formed 9"		Forster & Son Ltd. Sunderland ✓
		„ Mainpiece at top pintle	Cast 7x9		Varde ✓
		„ „ heel	5 1/4 x 9		Staalwerk ✓
		„ how constructed			
		„ double or single plate	double .36		
		„ coupling, vertical or horizontal	vertical		

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks					
„ „ Second „					
„ „ Hold 8 R. .41-.26		8x3x.38	✓	30	
„ „ Holds ... E.R. .35-.26		8x3x.38	✓	30	
„ „ (in Hold) ...		42x31x.26	8x3x.38	124	6x3x.38 ✓
COLLISION „ above Maindeck		37x32x.30	8x3x.38	124	5x3x.38 ✓
AFTER PEAK „ frame 9/10		37x32x.30	8x3x.38	124	5x3x.38 ✓

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)
	open hearth ✓ Cargu flat iron, Lankashire steel works, Dorman, Long, Colville, Appleby Frodingham Steel, Consett iron works, Steel Comp. of Scotland.
	Has the Steel been tested as required by the Rules? yes.



EQUIPMENT No 20274 ✓										LETTER S ✓		ANCHORS.			
Number of Certificate.	Anchor.	WEIGHT, Ex. STOCK			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Owts.	qrs.	lbs.	Owts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Owts.			
37409	1st Bower ...	41	2	0	✓	-	-	36	16	1	0	41	Byers improved		5.8.32 Sunderland
37445	2nd „ ...	36	0	7	✓	-	-	33	4	0	7	36	stockless	not stated	19.8.32 „ Butler
37432	3rd „ ...	33	1	14	✓	-	-	31	3	0	14	33	Shank forged		17.8.32 Sunderland Norman
	Collective weight.	110	3	21	✓	-	-					110			
37365	Stream .....	12	2	7	✓	-	-	14	8	1	21	12 1/2			12.7.32 Sunderland Butler

CHAIN CABLES.											HAWERS AND WARPS.						
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and Size per Table 53.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire.	Length and Size per Table 53.	
	Length.	Diam.	Statu-tory.	Break-ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Length.	Cir.
	Fathoms.	Ins.	Tons.	Tons.	Cwts. qrs. lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
55457	150	1 13/16	59.1382 3/4	243.0.0.	397 3/4		200	1 1/2	stud	✓	24.11.1932	TOWLINE...	90	4	43.6	90	4
55611	90	1 13/16	59.1382 3/4	154.3.21					link	✓	Cradley Heath S.C. Paul	10ft HAWERS & WARPS	90	3 1/2	34.6	90	2 1/2
				397.3.21								40ft	120	2 1/2	19.5	90	2 1/4
Iron Stream Chain or Steel Wire	75	4 1/4	103.515	✓						Jakob Holm & Sønner Cn.		"					

Steering Gear, Type (Power or hand) *Steam, Schärff & Co. Lübeck* Alternative Means of Steering *Telemotor + Hand*

Steering Chains (Size and Test) *✓* Windlass *Steam* *De Forenede Maskin-fabrikker Naestved* *Boats* *2 life boats wood 23'0" x 7'3" x 2'10" 1dinghy 16'6" x 5'9" x 2'5"*

Ceiling in Holds, thickness and material *2 1/2" Fir* Cargo Battens, thickness, material and spacing *6 x 2 Fir, 9" spaced*

Cargo Hatchways.—(Upper Deck) *steel coamings* Thickness of Hatches *N: 2.3.4 " 2 1/2" wood*

Size of Hatchways No. 1 (Fwd.) *28'0" x 20'0"* No. 2 *32'0" x 20'0"* No. 3 *26'0" x 20'0"* No. 4 *26'0" x 20'0"* No. 5 *✓* No. 6 *✓*

Number of Shifting Beams and/or Fore and Afters *6 7 5 5*

Builder's Signature *AALBORG VÆRFT A/S*  
*H. Hermann*

GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel *no*.  
 (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo *no* The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point (where required to be inserted in the Notation).

*The vessel has been built in accordance with the approved plans, the Secretary's letters and to the Rules of the Society. The workmanship is to my satisfaction. All the double bottom and peak tanks, watertight bulkheads, weatherdecks, tunnel, air- and sounding pipes, watertight doors have been tested as required by the Rules and found good. ✓*

*The vessel has been constructed for navigation in ice, intermediate frames are fitted from stem to frame N: 103 1/2. Intermediate frames in fore peak L 3 1/2 x 3 1/2 x .42 extend from floors to 2nd deck, intermediate frames 103 1/2 to 121 1/2 L 150 x 90 x 15 and from 122 1/2 to collision bulkhead 5 200 x 90 x 10. All frames abaft Collision bulkhead extend from margin plate to 2nd deck. Shellplating from about*

The amount of Entry Fee ..... Kr. *112.00* Fees applied for, *(Special notations, where part of class, to be stated.)*

Freeboard *246.40* 11.7.1938

Special Survey Fee.... £ *3.762.08* Received by me, *100 A1*

Late fee *90.00*

Travelling Expenses, if any £ *558.40* 26/7.1938

I am of opinion the Vessel should be Classed *with freeboard strengthened for navigation in ice ✓*

Signature *Hk. Jørgen* Surveyor to Lloyd's Register of Shipping.

State whether the Vessel has been built under Special Survey *✓*

Certificate to be sent to *Surveyor's office Copenhagen* Date of issue *2/9/38*

Committee's Minute *FRI. 15 JUL 1938*

Character assigned *+ 100 A1 With freeboard*

*Strengthened for navigation in ice Lloyd's Arch. + Lmb. 6.38*

*White of*



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.)

frame N: 105 to stem and from margin to 12" above loadline increased in thickness to .66" ✓

Sister vessels: 'Iron Gorthon' Copenhagen Report N: 9592  
'Ragna Gorthon' " " 9720

List of Plans and certificates attached.

PARTICULARS OF ELECTRIC WELDING (if employed) Marks and samplings have been electrically welded with approved electrodes, also all hold and transverse pillars, and double plates of Rudder to Rudder frame as per approved plan ✓

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book

strengthened for navigation in ice ✓  
leave out. Cruiser stern. D.F.  
Rudder Electrically Welded. E.S.D.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower N: 6544 weight 23.2.11 ✓ casting, 12 feet Head; w.H. Hatt Antwerp 94.37
	2nd " 6847 " 20.3.24 ✓ " 12 " " w.H. Hatt " 237.37
	3rd " 2411 " 20.2.23 ✓ " 12 " " Robertson " 302.37
	Stock 5872 " 2.3.25 ✓ " 15 " " w.H. Hatt " 218.76

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

Official No. Signal Letters O.Y.W.P. Extreme Breadth over Belting (Circ. 1611) Over-all Length 298.75. ✓  
No. and Material of Decks 1 deck steel and 1 shelter deck steel (1 Dk (Stl) & Shelter dk (Stl)) 1 Dk & shelter deck.  
Parts of Bottom of Vessel coated with cement or approved composition cement washed, Boiler tank with bituminous pt asp.  
Particulars of composition (if fitted) and of approval ✓

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284)  
Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	88'0" ✓	186 ✓	Fore peak tank,	18'0" ✓	51.5 ✓
Double bottom, under Engines and Boilers,	42'0" ✓	134 ✓	After peak tank,	18'0" ✓	94 ✓
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,	✓	✓
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	✓	✓
Double bottom, forward,	106'0" ✓	256 ✓	Other tanks, if fitted,	✓	✓
Total length (if continuous) and Capacity	236'0" ✓	576 ✓	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 137

Date 22.9.1932.

Dates of Surveys held while building

Sept 1932: 9. October, 8. 16. 29. Nov: 4. 17. 30. December, 10. 27.  
Jan 1933: 4. 11. 21. 27. 28. Febr: 3. 8. 11. 15. 18. 19. March: 1. 7. 9. 12. 22.  
24. April, 2. 12. 20. 22. 28. May: 2. 6. 14. 24. 31. June: 7. 10. 11. 15. 21.

Total No. of Visits 44

Lloyd's Register Foundation