

STEEL STEAMER or MOTORSHIP.

Received at London Office

22 DEC 1932

State if Report has been sent on the Freeboard of the Vessel *Yes*State if Report is sent on the Machinery of the Vessel *Yes*Date of completion of report *19th December 1932* Port of *Göteborg* No. *9/22*Survey held at *Göteborg* Date First Survey *7th December 1931* Last Survey *10th December 1932*On the *(State if Machinery fitted Aft and if Single, Twin or Triple Screw)* *Single Screw Motor Vessel "AURORA"*State Type *(Full scantling, Complete Superstructure with or without Tonnage Openings)* *Complete Superstructure with Tonnage opening* State Type of Erections *Open Deck*TONNAGE under Tonnage Deck... *3501.47* CLASS *100.A.1.* State if with freeboard as condition of Class *Yes* Built at *Göteborg*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 372.0* Launched *11th October 1932* Yard No. *470*Total Breadth (greatest moulded) *B 55.0* Builders *A/B. Göteborg*Gross Tonnage *4146.60* Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 35.5* Owners *Peder A/B Zenith*Register Tonnage *2268.42* 1st Longitudinal Number (L x D) *13206* Managers *T. Pettersen**(Long. measurement)* 2nd Numerical L x (B + D) *33666* (Where necessary to be entered in Reg. Book.)REGISTERED DIMENSIONS. *metre* FEET. Residence *Göteborg*Length *116.48 382.00* Proportions—Depth to Length—Uppermost continuous deck to top of keel *10.33* Port of Registry *Göteborg*Breadth *16.82 55.18* Do. Long Bridge to top of keel *24'-8 1/2"* If surveyed while building, afloat, or in dry dockDepth *6.85 22.45* Draught Moulded *24'-8 1/2"* Building afloat and on floating 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	710		Bracket Floors, Frame	6" 13 1/2" 46	
" " from 3/4 length to Collision bulkhead	710		" " Reversed Frame	150 x 75 x 9	
" " in peaks	610		" " Vertical Struts	530 x 90 x 9.5	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	1400 x 12	
Frame Amidships, Angle, E or C	12" 3 1/2" 44"		" " top Angles	Double 90 x 90 x 12.5	
" " Extends up to	2nd deck		" " bottom Angles	100 x 100 x 14.5	
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	One 9.5	
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	1400 x 12.5	
Depth of Framing Girder	12"		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	150 x 150 x 12	
Frames in Uppermost Continuous 'tween Decks, Angle, E or C	7" 3 1/2" 32		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	150 x 150 x 12	
" " Second 'tween Decks, Angle, E or C	every 2nd		" " Gussets, spacing and scantling abaft 1/2 len. from stem	450 x 10	
" " Third " " "			" " Gussets, spacing and scantling forward 1/2 len. from stem	450 x 10	
Framing in Peaks, Angle or C	7" 3 1/2" 44"		Tank Side Brackets, height above base line at toe of Frame and thickness	1400 x 12	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	22 @ 160		INNER BOTTOM PLATING.		
State if Frame Joggled	No		Breadth and thickness of Middle Line Strake	1310 x 12.5	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	Deep frames & stringer as per plan.		Thickness of remainder in Holds	10.5	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	150 x 150 x 12 frames increased shell & intercostals.		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	200 75 11	
Height of Brackets at side above base line at toe of frame			THROUGH BEAMS HALF " " in Wells, Angle, E or C	200 75 9	
Middle Line Keelson, on Floors, Angles, E or C			" " in way of Bridge, Angle, E or C		
" " Through Plate or Intercostal Plate			Spacing	Every frame	
" " Foundation Plate on Floors			Second Deck, amidships, Angle, E or C	250 90 13	
" " Flat Plate Keel Angles			THRO' HALF " " Spacing	200 75 11.5	
Side Keelsons, No. each side			Third Deck, amidships, Angle, E or C		
" " thickness of Intercostal Plate			Spacing	Every frame	
" " Angles			Fourth Deck, amidships, Angle, E or C		
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing	9.5 every 4th frame		Poop Deck, Angle, E or C	200 75 9	
" " Are Frame and Reversed Frame joggled?	Frame joggled		Spacing	Every frame	
Bracket Floors, breadth and thickness at middle line	800 x 9.5		Bridge Deck, Angle, E or C		
" " breadth and thickness at margin plate	800 x 9.5		Spacing		
			Forecastle Deck, Angle, E or C	200 75 9	
			Spacing	Every frame	

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.
PILLARS, No. of Rows.....				Stringer Plate, breadth and thickness in way of Bridge			
„ in 'tween Decks, Size and Spacing.....				Thickness of Plating abreast Deck openings in way of Wells.....	9.0		
„ „ „ „ „	<i>See plan</i>			Thickness of Plating abreast Deck openings in way of Bridge			
„ in Holds „ „				Thickness of Plating within line of openings...	8.0		
„ „ „ „ „				If Sheathed, material and thickness			
Centre Line Bulkhead.				Third Deck.			
Stiffeners and Spacing.....	<i>230 x 90 x 11 1/2</i>			Stringer Plate, breadth and thickness.....			
Plating, thickness of	<i>7.5</i>			If Plated, state thickness.....			
STRINGERS AND DECKS.				Fourth Deck.			
Uppermost Continuous Deck.				Stringer Plate, breadth and thickness.....			
Stringer Plate, breadth and thickness in Wells.....	<i>1790 x 11.0</i>			If Plated, state thickness			
„ „ „ „ in way of Bridge				Poop Deck.			
„ Angle in Wells	<i>130 x 130 x 13.5</i>			Stringer Plate, breadth and thickness			
Thickness of Plating abreast Deck openings in way of Wells	<i>10.5</i>			Plating, Sheathing, material and thickness ..			
Thickness of Plating abreast Deck openings in way of Bridge				Bridge Deck.			
Thickness of Plating within line of openings...	<i>9.0</i>			Stringer Plate, breadth and thickness.....			
If Sheathed, material and thickness				Plating, Sheathing, material and thickness ..			
Second Deck.				Forecastle Deck.			
Stringer Plate, breadth and thickness in Wells...	<i>1790 x 10.0</i>			Stringer Plate, breadth and thickness.....	<i>8.5</i>		
				Plating, Sheathing, material and thickness	<i>2.5 Sheathed under windlass only</i>		

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. <i>No</i> 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. <i>mm.</i>	Inches. <i>mm.</i>	Inches. <i>mm.</i>	Inches. <i>mm.</i>			Inches. <i>mm.</i>	Inches. <i>mm.</i>		Inches. <i>mm.</i>	Inches. <i>mm.</i>	
FLAT PLATE KEEL	1270	18.5	16.5	16.5		Double	22	89	4	22	79	Lapped
" DBLG. (if any)												
BOTTOM PLATING, No. of Strakes		13.5	12.0	12.0		"	"	"	3	"	80	"
BILGE PLATING, No. of Strakes		13.5	12.5	12.0		"	"	"	"	"	"	"
SIDE PLATING, No. of Strakes		13.5	11.5	11.5		"	"	"	"	"	"	"
UPPER DECK, Sheer-strake in Wells	1780	15.5	11.5	11.5		"	"	"	4	"	88	"
UPPER DECK, Sheer-strake in Bridge ...												
STRAKE BELOW Sheer-strake in Wells		14.5	11.5	11.5		"	"	"	3	"	80	"
STRAKE BELOW Sheer-strake in Bridge ...												
POOP SIDE PLATING												
BRIDGE SIDE PLATING ...												
FORECASTLE SIDE PLATING			10.0			Single	22	87	1	22	80	"

WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c) *Collision Bhd.*

„ Deck next below *4*

As per Rule *6*

FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—						Casting or Forging.	Scandlings.	Maker's Name.	Any departure from approved plans to be noted.
Extending to Upper Deck (Sec. 3 c) <i>Collision Bhd.</i>									
Deck next below <i>4</i>									
As per Rule <i>6</i>									
		Plating Thickness.	STIFFENERS.						
			VERTICAL.		HORIZONTAL.				
			Scandlings.	Spacing.	Scandlings.	Spacing.			
MIDSHIP BULKH'D, Upper tween decks									
"	" Second "								
"	" Third "								
"	" Holds	<i>110-6.5</i>	<i>254.89-175</i>	<i>760,</i>	<i>✓</i>				
COLLISION " (in Hold)		<i>135-6.5</i>	<i>180.75-105</i>	<i>610,</i>	<i>dark and 3</i>				
AFTER PEAK " "		<i>90-7.5</i>	<i>180.75-90</i>	<i>610,</i>	<i>heavy girders</i>				

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Societe Anonyme d'Aciereries et Fonderies de la Loire - Marbache. Mannesmannröhren-Werke. Scottish Iron & Steel Co. Ltd. works Coatbridge. Cargo Steel Iron Co. Ltd. Witkowitz Bergbau- und Eisen-Hütten- und Maschinenbau-Gesellschaft in Witkowitz.*

Has the Steel been tested as required by the Rules? *yes* *Frodingham Iron and Steel Works. Vereinigte Stahlwerke AG. Saarland. Lancashire Steel Co. Ltd. Works, Matherwell.*

EQUIPMENT No. 34422												LETTER "Y."		ANCHORS.	
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.			
92771	1st Bower ...	58	0	0				47	5	0	0	60	Hall's latest Improved type	—	LPH.-N 1 1/2 1932 H Green
92772	2nd " ...	57	3	0				47	1	3	14		"	—	" " " " " "
91618	3rd " ...	56	3	10				46	10	3	21		"	Atkinson & Co Ltd.	" " 8/3 1930 " "
	Collective weight.	172	2	10								170 1/2			
92787	Stream	16	1	7	4	0	21	17	14	0	7	16 1/2.	Ordinary	— " —	" " 2 3/6 1932 A Relf

CHAIN CABLES.										HAWSERS 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.
97850	135	2 1/2	86.1	120.5	323	3	15	645 3/4	270	2 1/2	Shed link	Wingfield & Co. Ltd.	LPH-N 2 1/2 1932 A. Relf	TOWLINE...	220	4 1/2	47.7	120	4 1/2
97851	135	2 1/2	86.1	120.5	323	2	12				"	"	" " " " "	HAWSERS & WARPS	2090	2 1/2	15.2	2090	2 1/2
	270				647	1	27							"	2090	2 1/2	13.2	2090	2 1/2
		0ir.								0ir.				"					
Iron Stream Chain or Steel Wire	120	4 1/2		47 1/2					90	4 1/2				"					

Steering Gear, Steam *Electric Hydraulic (See Plan) by J. Hestie & Co. Ltd.* Steering Gear, Hand *Yes (Direct acting)*

Boats *2.0 26' x 8' x 3.25'* Steering Chains, Size and Test *✓* Windlass *Electric by Thomas B. Thigle*

Ceiling in Holds, thickness and material *3" Swedish Pine on 2" battens* Cargo Battens, thickness, material and spacing *2" Swedish Pine, "9"*

Cargo Hatchways.—(Upper Deck) *Shed Coamings 820 mm high* Thickness of Hatches *65 mm.*

Size of No. 1 Hatchway (Forward) *1846 x 6.25* No. 2 *1846 x 6.25* No. 3 *1846 x 6.25* No. 4 No. 5 No. 6

Number of Shifting Beams and/or Fore and Afters *12 in each hatch (Two connected to each other and plated over at half the length of hatchway)*

AKTIEBOLAGET GÖTAVERKEN
Builder's Signature *H. G. Hammar*

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel *Yes* (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.

The materials and workmanship are good. The vessel has been built in accordance with the approved plans and instructions, the Surveyor's letters of various dates and in conformity with the Rules for the class contemplated.

The vessel is constructed to carry oil fuel in the double bottom.

Flash point of the oil fuel not below 150° F.

The tanks, decks, bulkheads, tunnel and W.T. door have been tested in accordance with the requirements of the Rules, and the requirements of the Rules for oil fuel (Sec 20) have been complied with where applicable.

The freeboard has been verified & the freeboard marks cut in on the vessels' sides.

The steering gear and windlass have been tested.

The amount of Entry Fee *kr 145.60* Fees applied for, *19 Dec 1932*

Special Survey Fee.... *kr 5138.77* I am of opinion the Vessel should be Classed ** 100. A 1.*

FREEBOARD " *350:—* Received by me, *with freeboard.*

Travelling Expenses, if any £ *5.75* *20.1. 1933*

TELEGRAMS *17.80*

State whether the Vessel has been built under Special Survey *Yes* Signature *U. Bülöw*

Certificate to be sent to *Göteborg* Date of issue *4/1/33* Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI. 30 DEC 1932*

Character assigned *+ 100A1*

with freeboard

+ L. Inc. 12.32 C. L.
Lloyd's A.R.C.P.
D.B. 100 lb.

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The Surveyors are requested not to write on or below the Committee's Minute.

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.)

Plans now forwarded.

Midship Section.
Longitudinal Section and Plans.
Shell expansion
Ballast tank on Shelter deck (Vattentank på shelterdäck)
Panting Arrangement
Seatings for Main Engine (Bäddar för huvudmotorer)
After peak (Åtterpik)
Arrangement of Strongbeam in engine room.
Sternframe and Rudder (Åtterstäv och Roder)
Cast steel tiller
Transverse bulkheads (Vattentäta skott.)
Hatchways and Pillars (Lastluckor med Luckändbalke och
Fästerstötter)

Also Midship Section and Profile & deck as built and forgings and castings report are now forwarded.

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

1st Bower	36 cwt.	3 qrs.	21 lbs.	J.P.	7616	16/6 1930
2nd "	36	2	8	P.D.B.	7631	9/7 1930
3rd "	33	3	6	P.D.W.	1739	25/4 1929

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ⁶ ft., R.Q.D. ⁶ ft., Bridge ⁶ ft., Forecastle ^{38.0} 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) 1 dk (H.L.) & shelter dk (H.L.)

Bulkhead in after hold dispensed with (advised E.P.M.)

Official No. 7848 ; Signal Letters K.H.Q.R.

Is bottom of Vessel coated with cement *yes fully* if not give

particulars of composition Peaks and Bilges cemented.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	SALT Water Capacity. Tons.	Where Fitted.	*Length. Feet.	SALT Water Capacity. Tons.
Double bottom, aft,	97.7	413.08	Fore peak tank,	18.0	99.73
Double bottom, under Engines and Boilers,			After peak tank,	20.0	118.90
Double bottom, if under Engines only, ^{19.60 tons F.W. & 17.65 " salt water}	30.3	171.07	Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	193.4	1028.18	Other tanks, if fitted, <i>Ballast tank on SH. deck</i>	27.9	272.36
Total capacity of double bottom		1612.33	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks.
Total length of double bottom 321.4 ft.

Order for Special Survey No. 191

Date 29/3 1932

Dates of Surveys held while building

1931 Dec. 7. 9. 10. 11. 14. 18. 22. 29 1932 Febr. 19. 22. 24. 25. 29 March 3. 4. 11. 18. 23. 29. 31 April 1. 10. 15. 25. May 4. 7. 16. 21. 28. 30 June 15. 20 July 1. 20 Aug 11. 13. 19. 22. 27. 29. 30 Sept 6. 8. 9. 10. 13 14. 15. 16. 20. 21. 22. 23. 27. 29 Oct. 4. 5. 7. 8. 10. 11. 18. Nov. 9. 14. 16. 21. 22. 24. Dec. 2. 5. 6. 7. 8. 9. 10

Total No. of Visits

75