

## STEEL STEAMER or MOTORSHIP.

Received at London Office

30 JAN 1928

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 *Jan. 28<sup>th</sup> 1928*Port of *Helsingborg*No. *225 A*Survey held at *Helsingborg*Date First Survey *Dec. 19<sup>th</sup> 1925*Last Survey *Jan 23<sup>rd</sup> 1928*On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) *Single Screw Steel Steamer "NEVA"*State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *Full Scantling, Strengthened for nav. in ice* State Type of Erections *P, Q, B & F*TONNAGE under Tonnage Deck... *1111.89*CLASS *\* 100 A1*State if with freeboard as condition of Class *No*Built at *Helsingborg*Do. of space or spaces between Tonnage Dk. and Upper Dk. *150.69*Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) *L 246*Launched *12-11-1927* Yard No. *46*Total *1262.58*Breadth (greatest moulded) *B 38*Builders *Helsingborgs Varvs & Sjöfart A.B.*Gross Tonnage *1456.63*Depth at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 17.5*Owners *Skibbolaget Transmarin*Register Tonnage *796.08*1st Longitudinal Number (L x D) *= 4306*Managers *Bernh. Ingelison*

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

## REGISTERED DIMENSIONS.

FEET.

Length *247.38*Framing Depth "d," at middle of length. See Sec. 3 (1d) *14.5*Residence *Helsingborg*Breadth *38.19*Proportions—Depth to Length—Uppermost continuous deck to top of keel *14.05*Port of Registry *Helsingborg*Depth *15.25*Do. Long Bridge to top of keel *10.04*If surveyed while building, afloat, or in dry dock *yes.*Draught Moulded *16'-10 1/2"*

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	M. M. INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	M. M. INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	585		Bracket Floors, Frame ...	150 70 8 <i>Appl. 140x75x7</i>
" " from 1/4 length to Collision bulkhead	585		" " Reversed Frame	150 70 8 <i>" 130x75x7</i>
" " in peaks	585		" " Vertical Struts <i>at side girder</i>	130 70 8 <i>" 130x75x7</i>
SIDE FRAMING. <i>in way of RQ dk.</i>	800 75 11.5		Centre Girder, depth and thickness amidships	840 10.5
Frame Amidships, Angle, E or C	180 75 10.5		" " top Angles	75 75 10
" " Extends up to	<i>Bridge dk. on alternate frame</i>		" " bottom Angles	90 90 10.5
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	1 8
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	780 9
Depth of Framing Girder	180		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	75 75 8
Frames in Uppermost Continuous 'tween Decks, Angle, C or E			" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem	130 130 8.5
" " Second 'tween Decks, Angle, C or E			" " Gussets, spacing and scantling abaft 1/4 len. from stem	
" " Third " " "			" " Gussets, spacing and scantling forward 1/4 len. from stem	
Framing in Peaks, Angle or C	140 75 8	<i>+ .5</i>	Tank Side Brackets, height above base line at toe of Frame and thickness	1420
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	19 135		INNER BOTTOM PLATING.	
State if Frame Joggled	No.		Breadth and thickness of Middle Line Strake	1085 9.5
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	<i>As per Section 7.B</i>		Thickness of remainder in Holds	8-7.5
STRENGTHENING OF BOTTOM FORWARD. State Particulars	<i>As per approved plan</i>		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?	<i>Yes</i>
SINGLE BOTTOM.			BEAMS.	
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships in Wells, Angle, E or C	180 75 9
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, E or C	180 75 9
Middle Line Keelson, on Floors, Angles, C or E			" " Spacing	<i>Every frame</i>
" " Through Plate or Intercoastal Plate			R. Q. <i>2.2.2.2</i> Second Deck, amidships, Angle, E or C	140 75 8 <i>Appl. 125x75x8</i>
" " Foundation Plate on Floors			" " Spacing	<i>Every frame</i>
" " Flat Plate Keel Angles			TRUNK	
Side Keelsons, No. each side			Third Deck, amidships, Angle, E or C	140 75 9
" " thickness of Intercoastal Plate			" " Spacing	585
" " Angles			Fourth Deck, amidships, Angle, E or C	
DOUBLE BOTTOM.			" " Spacing	
Solid Floors, thickness and spacing	<i>8 every 3<sup>rd</sup> frame</i>		Poop Deck, Angle, E or C	150 75 8
" " Are Frame and Reversed Frame joggled?	No.		" " Spacing	<i>Alternate frame</i>
Bracket Floors, breadth and thickness at middle line	630 8		Bridge Deck, Angle, E or C	140 75 8
" " breadth and thickness at margin plate	700 8		" " Spacing	<i>Every frame</i>
			Forecastle Deck, Angle, E or C	150 75 8
			" " Spacing	<i>Every frame</i>



## PILLARS AND DECKS.

	M.M. INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		M.M. INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>PILLARS</b> , No. of Rows.....	<i>One at centre line</i>	<input checked="" type="checkbox"/>	<b>ANGLE</b> Stringer Plate, breadth and thickness in way of Bridge.....	125 125 11 90 90 10	<input checked="" type="checkbox"/>
„ in 'tween Decks, Size and Spacing.....	<i>As per upper plan</i>	<input checked="" type="checkbox"/>	Thickness of Plating abreast Deck openings in way of Wells.....	7.5	<input checked="" type="checkbox"/>
„ „ „ „ „		<input checked="" type="checkbox"/>	Thickness of Plating abreast Deck openings in way of Bridge.....	7.5	<input checked="" type="checkbox"/>
„ in Holds „ „		<input checked="" type="checkbox"/>	Thickness of Plating within line of openings...		
„ „ „ „ „		<input checked="" type="checkbox"/>	If Sheathed, material and thickness .....		
<b>Centre Line Bulkhead.</b> Stiffeners and Spacing.....		<input checked="" type="checkbox"/>	<b>Third Deck.</b> Stringer Plate, breadth and thickness.....		
Plating, thickness of .....		<input checked="" type="checkbox"/>	If Plated, state thickness.....		
<b>STRINGERS AND DECKS.</b> <b>Uppermost Continuous Deck.</b>	1500 20	<input checked="" type="checkbox"/>	<b>Fourth Deck.</b> Stringer Plate, breadth and thickness.....		
Stringer Plate, breadth and thickness in Wells	1050 11	<input checked="" type="checkbox"/>	If Plated, state thickness .....		
„ „ „ „ in way of Bridge	1500 9	<input checked="" type="checkbox"/>	<b>Poop Deck.</b> Stringer Plate, breadth and thickness .....	800 8	<i>As per 580 7.5</i>
„ Angle in Wells .....	150 150 15	<input checked="" type="checkbox"/>	Plating, Sheathing, material and thickness ...	3' Oregon pine	<input checked="" type="checkbox"/>
Thickness of Plating abreast Deck openings in way of Wells .....	10	<input checked="" type="checkbox"/>	<b>Bridge Deck.</b> Stringer Plate, breadth and thickness.....	1465 9	<input checked="" type="checkbox"/>
Thickness of Plating abreast Deck openings in way of Bridge .....	8	<input checked="" type="checkbox"/>	Plating, Sheathing, material and thickness ...	7.5	<input checked="" type="checkbox"/>
Thickness of Plating within line of openings...	7.5	<input checked="" type="checkbox"/>	<b>Forecastle Deck.</b> Stringer Plate, breadth and thickness.....	7.5	<input checked="" type="checkbox"/>
If Sheathed, material and thickness .....		<input checked="" type="checkbox"/>	Plating, Sheathing, material and thickness ...	7.5	<input checked="" type="checkbox"/>
<b>R.A.</b> <b>Second Deck.</b> Stringer Plate, breadth and thickness in Wells...	1500 11-10	<input checked="" type="checkbox"/>			

## SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? <i>No.</i>			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.	
	<i>inches.</i> <i>M. M.</i>	<i>inches.</i> <i>M. M.</i>	<i>inches.</i> <i>M. M.</i>	<i>inches.</i> <i>M. M.</i>			<i>inches.</i> <i>M. M.</i>	<i>inches.</i> <i>M. M.</i>		<i>inches.</i> <i>M. M.</i>	<i>inches.</i> <i>M. M.</i>	
FLAT PLATE KEEL .....	1070	13.5	13.5	13.5		<i>Double</i>	19	73	3	22	80	<i>Lapped</i>
„ DBLG. (if any)												
BOTTOM PLATING, No. of Strakes ..... 3.....)	1700	11	11-10	11-9.5		<i>Double</i>	19	73	3	19	65	„
BILGE PLATING, No. of Strakes .....)	1360	11	15	11-10		„ fwd	22	85	3-2	22	80	„
SIDE PLATING, No. of Strakes .....&.....)	1700	11	15	9.		„ fwd	19	73	3	19	65	„
UPPER DECK, Sheer- strake in Wells.....)			20			„ fwd	22	85	3-2	22	80	„
UPPER DECK, Sheer- strake in Bridge ...)	1260	11	9.5	9		<i>Single</i>	19	73	3	19	65	„
STRAKE BELOW Sheer- strake in Wells.....)	1850		15									
STRAKE BELOW Sheer- strake in Bridge ...)	1700	11										
POOP SIDE PLATING .....				7.		<i>Single</i>	16	65	1	16	55	<i>Lapped</i>
BRIDGE SIDE PLATING ...		11				„	19	73	3	19	65	„
FORECASTLE SIDE PLATING			8			<i>Single</i>	16	65	1	16	55	„

## WATERTIGHT BULKHEADS.

<b>Total No. of W.T. BULKHEADS in Vessel—</b>	
Extending to Upper Deck (Sec. 3 c) .....	4
„ Deck next below .....	
As per Rule .....	4

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
<b>KEEL, Bar</b> .....		M.M.		
<b>STEM</b> .....	Forging	185x44		
<b>STERN FRAME</b> { Propeller Post .....	Castling	210x155x105	Wilkomitz Bergbau & Eisenwerkshaft	
{ Rudder „ .....	„	See upper plan		
<b>RUDDER—AxD.</b> .....	Forging	560 M.		
<b>Speed of Vessel</b> .....		10 knots		
<b>RUDDER</b> mainpiece at head ...	Forging	190	Wilkomitz Bergbau	
„ „ heel ...		155	& Eisenwerkshaft.	
„ how constructed .....	Single plat. det. arms			
„ double or single plate		25		
„ coupling, vertical or horizontal .....	Horizontal			

<b>STEEL.</b>	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) <i>Eisenhiille Holslein, Act. Ges. Rendsburg, Germany. Acieries Reunies de Burbach-Eich-Dudelange, Saarbrücken-Burbach.</i>
	Has the Steel been tested as required by the Rules? <i>Yes.</i>



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.				
1116	1st Bower	32	1	0				30	10	0	0	30½		Swens Patent	N.K.A.F.	Ref. 14.7.27 P.F.W.
1117	2nd "	29	1	8				28	5	0	0	30½		"	"	"
1118	3rd "	27	0	16				26	18	0	0	26		"	"	"
	Collective weight.	88	2	24								87				
1119	Stream	8	3	16	2	2	0	11	2	0	0	7¾		Samman Shocks	N.K.A.F.	Ref. 14.7.27 P.F.W.

## 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.	
	Fathoms.	Ins.	Tons.	Break-ing.	Supplied.	Per Rule.	Cwts.	Fathoms.	Ins.					Length.	Ins.		Length.	Ins.
1451	150	1 10/16	47½	66½	206.1.0					Shud link	N.K.A.F.	Ref. 16.5.27 PFW	TOWLINE	90	3 1/4	23 1/4	90	3 1/4
1457	90	1 10/16	"	"	124.0.16	319 1/2		240	1 10/16	"	"	" 14.7.27 PFW	HAWSERS & WARPS	3x90	2 1/2	14	2x90	2 1/2
													"	90	1 3/4	6 8/10	2x90	1 3/4
	75	3 3/4	30½					75	3 3/4				"	8x90	5			

Steering Gear, Steam *Helsingborgs Varfs & Svecen A-B* Steering Gear, Hand *Hand wheel and screw*Boats *2 life boats* Steering Chains, Size and Test *1 1/8" 15.2.2.0 & 30.5.0.0* Windlass *Steam Hdg. H.S.A-B.*Ceiling in Holds, thickness and material *2 1/2" Swedish Pine* Cargo Battens, thickness, material and spacing *Cargo battens not fitted.*Cargo Hatchways.-(Upper Deck) *Steel coamings* Thickness of Hatches *3"*Size of No. 1 Hatchway (Forward) *23'-0 1/2" x 16'-6"* No. 2 *30'-8 1/2" x 16'-6"* No. 3 *26'-7 3/4" x 16'-6"* No. 4 *23'-0 1/2" x 16'-6"* No. 5 *U.D. in Bridge* No. 6 *23'-7 1/2" x 16'-6"*Number of Shifting Beams and/or Fore and Afters *3 in No. 1, 5 in No. 2, and 4 in each of Nos 3 & 4.*

Helsingborgs Varfs- &amp; Svecenings Aktiebolag

Builder's Signature

*[Signature]*

GENERAL DECLARATION This vessel has been built under special survey in accordance with the approved plans and instructions and all the Rule requirements have been complied with.

The workmanship is good.

The materials are good.

Forgings and castings as per certificates attached.

All double bottom and peak tanks have been tested as required by the Rules.

The watertight bulkheads, shaft tunnel and decks have been tested with water from a hose and found tight. Steering gear and windlass tested.

The foreboard has been verified and cut in on the vessel's sides.

The vessel is strengthened for navigation in ice in accordance with Section 41 of the Rules and the approved plans.

Plans of the vessel as built (two in number) i.e. Midship Section and Profile and deck plans are forwarded under separate cover.

The amount of Entry Fee ..... £ *24* : 91 : 00

Special Survey Fee.... £ *26* : 265 : 74

Fee for testing of Bulb's Gird. " 30 00

Travelling Expenses, if any £ : : :

Freeboard 121 : 0

Fees applied for,

Jan 28 1928

Received by me,

4 2 1928

I am of opinion the Vessel should be Classed *+ 100 A1.*State whether the Vessel has been built under Special Survey *Yes*

Signature

*A. Sundén*

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *Sw. Office Helsingborg* Date of issue *9/2/28*

Committee's Minute

TUES. 7 FEB 1928

Character assigned

*+ 100 A1**(on Hpl. 16597)**Lloyd's A & CP**+ L.M.C. 1:28.**Cargo battens not fitted**note: Strengthened for Navigation in Ice**Min. Hpl.**" Hpl.**My*

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Lloyd's Register Foundation

W199-0102(212)



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.)

Particulars of <b>Drop Test</b> of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower.	19.1.13	J.L.	141.2.6.27
	2nd "	18.1.8	J.L.	143.2.6.27
	3rd "	17.0.12	J.L.	142.2.6.27

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 19.2 ft., R.Q.D. 74.9 ft., Bridge 103.8 ft., Forecastle 23.1 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. (atl).

Official No. 7408 ; Signal Letters H. S. L. R. Is bottom of Vessel coated with cement yes if not give particulars of composition

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length.	Water Capacity.	Where Fitted.	*Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	77	161.	Fore peak tank,	14.4	28
Double bottom, under Engines and Boilers,	38	90.	After peak tank, (overhang over tunnel well).	17.3	54
Double bottom, if under Engines only, Part. 211'			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	96	186	Other tanks, if fitted,		
	Total capacity of double bottom	437	(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. 2

Date 5.11.1925.

Dates of Surveys held while building

1925-1916 1926-13 1/2, 19 1/2, 6 1/8, 18 1/8, 1 1/2, 2 1/2, 7 1/2, 27 1/2, 1927-3 1/2, 7 1/2, 8 1/2, 2 1/2, 5 1/2, 7 1/2, 11 1/2, 13 1/2, 18 1/2, 19 1/2, 26 1/2, 28 1/2, 1 1/2, 3 1/2, 8 1/2, 9 1/2, 11 1/2, 27 1/2, 3 1/2, 5 1/2, 8 1/2, 9 1/2, 13 1/2, 16 1/2, 19 1/2, 21 1/2, 24 1/2, 27 1/2, 29 1/2, 3 1/2, 5 1/2, 8 1/2, 13 1/2, 16 1/2, 19 1/2, 24 1/2, 28 1/2, 3 1/2, 5 1/2, 8 1/2, 11 1/2, 14 1/2, 17 1/2, 19 1/2, 24 1/2, 29 1/2, 2 1/2, 6 1/2, 29 1/2, 1928-5 1/2, 11 1/2, 12 1/2, 21 1/2, 23 1/2

Total No. of Visits 68