

STEEL STEAMER or MOTORSHIP.

26 SEP 1924
Received at London Office.....

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 10th SEPTEMBER 1924. Port of HAMBURG No. 16051

Survey held at KIEL Date First Survey 24th JUNE 1924 Last Survey 30. AUGUST 1924

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) STEEL SINGLE SC. "IVAN GORTHON"

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) FULL SCANTLING. State Type of Erections DISCONNECTED.

TONNAGE under } 1356.39 CLASS * 100 A1. State if with freeboard } NoT. Built at KIEL
Tonnage Deck... }
as condition of Class }

Do. of space or spaces) } Length from fore part of stem to after part of stern } L 261.25 ✓

and Upper Dk.] **Breadth** (greatest moulded) **B** 40.25 Builders **HOWALDTSWERKE.**

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous D 19.17 Owners REDERI A/B "GEFION"

1st Longitudinal Number (L x D).....= 5007. Managers JOH. GORTON.

2nd Numeral $L \times (B + D) \dots\dots\dots = 16522.$ (Where necessary to be entered in Reg. Book.)

REGISTERED DIMENSIONS. Framing Depth "d," at middle of length. See } 15.25 Residence HELSINGBORG.

Length *259.26* Proportions—Depth to Length—Uppermost con- } *13.63* Port of Registry *HELSINGBORG.*

Breadth	40.09	Do.	Long Bridge to top	9.71	If surveyed while building, afloat, or in dry dock
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Depth	16.31	Draught Moulded	17.69	DURING CONSTRUCTION.
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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	23 1/2"		600		Bracket Floors, Frame	5 1/2	3	30	
" " from 1/4 length to Collision bulkhead.....}	23 1/2				" " Reversed Frame	5 1/2	3	30	
" " in peaks.....	23 1/2				" " Vertical Struts	5	3	30	
SIDE FRAMING.					Centre Girder, depth and thickness amidships	39 1/2	x	44	
Frame Amidships, Angle, E or C	7 1/2	3	42		" " top Angles	3	3	40	
" " Extends up to U.D.K.	-	-	-		" " bottom Angles	3 1/2	3 1/2	44	
" " ENG & B. SPACES	7 1/2	3	48		Side Girders, No. each side and thickness ONE	-	-	32	
Reversed Frame Amidships, Angle	-	-	-		Margin Plate depth (excl. of flange) and thickness	36	x	38	
" " Extends up to	-	-	-		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	3	3	32	
Depth of Framing Girder	7 1/2	-	-		" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem	3	3	32	
Frames in Uppermost Continuum 'tween P. BR & F. Decks, Angle, E or C	5	3	38		" " Gussets, spacing and scantling abaft 1/4 len. from stem	18 x 14	x	44	
" " Second 'tween Decks, Angle, E or C	-	-	-		" " Gussets, spacing and scantling forward 1/4 len. from stem	18 x 14	x	32	
" " Third " " " " " "	-	-	-		Tank Side Brackets, height above base line at toe of Frame, and thickness B. SPACE	61 1/2	x	33	
Framing in Peaks, Angle or C	5 1/2	3	38		INNER BOTTOM PLATING.				
ICE FRAMES FORW. 3/4 L. BTW. FRAMES & Diameter and Spacing of Rivets through Shell Plating	5 1/2	3	28		Breadth and thickness of Middle Line Strake ..	48	x	38	
State if Frame Joggled	No.		ORDINARY		Thickness of remainder in Holds	32	To	34	
PANTING ARRANGEMENTS (Sec. 7), state INCREASED FRAMES & system and particulars)	9 1/2	3 1/2	44	9 x 3 x 54	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?	ENG		38	
STRINGERS & BEAMS	15	21	38			Boil		48	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	5 1/2	3 1/2	42		BEAMS.				
TWO EXTRA ROWS OF 1/2 INTERCOSTALS	3	3	32		Uppermost Continuous Deck, amidships in Wells, Angle, E or C	7 1/2	3	39	
SINGLE BOTTOM.					" " in way of Bridge, Angle, E or C	7 1/2	3	39	
Floors, Depth and thickness at mid-line in Holds	-	-	-		Spacing	23 1/2			
Height of Brackets at side above base line at toe of frame	-	-	-		Second Deck, amidships, Angle, E or C	6 1/2	3	32	
Middle Line Keelson, on Floors, Angles, E or C	-	-	-		Spacing	6	3	32	
" " " Through Plate or Intercostal Plate	-	-	-		Third Deck, amidships, Angle, E or C	-	-	-	
" " " Foundation Plate on Floors	-	-	-		Spacing	-	-	-	
" " " Flat Plate Keel Angles	-	-	-		Fourth Deck, amidships, Angle, E or C	-	-	-	
Side Keelsons, No. each side	-	-	-		Spacing	-	-	-	
" " thickness of Intercostal Plate	-	-	-		Poop Deck, Angle, E or C	7 1/2	3	40	
" " Angles	-	-	-		Spacing	47			
DOUBLE BOTTOM.					Bridge Deck, Angle, E or C	6	3	34	
Solid Floors, thickness and spacing	EVERY 3RD FRAME				Spacing	23 1/2			
" " Are Reversed Frame joggled?	YES				Forecastle Deck, Angle, E or C	6 1/2	3	34	
Bracket Floors, breadth and thickness at middle line	3 1/2	x	32		Spacing	23 1/2			
" " breadth and thickness at margin plate	3 1/2	x	32						

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. <i>ONE MIDDLE B'HO.</i>	-	-	-		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	-	-	-	
" " " " "	-	-	-		Thickness of Plating abreast Deck openings in way of Bridge	-	-	-	
" in Holds " "	-	-	-		If Sheathed, material and thickness	-	-	-	
" " " " "	-	-	-						
Centre Line Bulkhead.					Third Deck.				
Stiffeners and Spacing. <i>EVERY 2ND FRAME.</i>	8	3	.46		Stringer Plate, breadth and thickness.....	-	-	-	
Plating, thickness of <i>HOLDS ERECT.</i>			.30		If Plated, state thickness.....	-	-	-	
			.26						
STRINGERS AND DECKS.					Fourth Deck.				
Uppermost Continuous Deck.					Stringer Plate, breadth and thickness.....	-	-	-	
Stringer Plate, breadth and thickness in Wells	5 1/2	x	8 1/2	.50	If Plated, state thickness	-	-	-	
" " " " in way of Bridge	5 1/2	x	.34						
" Angle in Wells	5	5	.50		Poop Deck.				
Thickness of Plating abreast Deck openings in way of Wells38		Stringer Plate, breadth and thickness	25	x	.30	
Thickness of Plating abreast Deck openings in way of Bridge34		<i>TIE PLATES</i>	71	x	.28	
If Sheathed, material and thickness	-	-	-		Plating, Sheathing, material and thickness ...	<i>PITCH PINE</i>	2 1/2		
Second Deck.					Bridge Deck.				
Stringer Plate, breadth and thickness in Wells...	-	-	-		Stringer Plate, breadth and thickness.....	50	x	.41	
					Plating, Sheathing, material and thickness ...	<i>PLAT.</i>	.30 x .34		
						<i>Not Sheathed.</i>			
					Forecastle Deck.				
					Stringer Plate, breadth and thickness.....	25	x	.32	
					Plating, Sheathing, material and thickness ...	<i>PLAT.</i>	.31		
						<i>Not Sheathed.</i>			

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if joggled? <i>YES!</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.		
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL	<i>43</i>	<i>.56</i>	<i>.51</i>	<i>.51</i>		<i>DOUBLE</i>	<i>7/8</i>	<i>3 1/2</i>	<i>TREBLE</i>	<i>7/8</i>	<i>3 1/8</i>	<i>LAPPED.</i>	
„ DELG. (if any)	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>		<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	
BOTTOM PLATING, No. of Strakes <i>Two</i>	<i>80</i>	<i>.45</i>	<i>.40</i>	<i>.40</i>		<i>DOUBLE</i>	<i>3/4</i>	<i>3</i>	<i>TREBLE To DOUBLE</i>	<i>3/4</i>	<i>2 5/8</i>	<i>Do</i>	
BILGE PLATING, No. of Strakes <i>ONE</i>	<i>80</i>	<i>.45</i>	<i>.56</i>	<i>.40</i>		<i>Do</i>	<i>3/4</i>	<i>3</i>	<i>Do Do</i>	<i>3/4</i>	<i>2 5/8</i>	<i>Do</i>	
SIDE PLATING, No. of Strakes <i>Three</i>	<i>74</i> <i>83</i>	<i>.45</i>	<i>.67</i>	<i>.40</i>		<i>SINGLE</i>	<i>3/4</i>	<i>3</i>	<i>Do Do</i>	<i>3/4</i>	<i>2 5/8</i>	<i>Do</i>	
UPPER DECK, Sheer- strake in Wells.....}	<i>83</i>	<i>•</i>	<i>.76</i>	<i>.76</i>		<i>BREAK DOUBLE</i>	<i>7/8</i>	<i>3 1/2</i>	<i>BREAK QUADR.</i>	<i>7/8</i>	<i>3 1/2</i>	<i>Do.</i>	
UPPER DECK, Sheer- strake in Bridge ...}	<i>83</i>	<i>.45</i>	<i>.40</i>	<i>.40</i>		<i>SINGLE</i>	<i>3/4</i>	<i>3</i>	<i>TREBLE</i>	<i>3/4</i>	<i>2 5/8</i>	<i>Do</i>	
STRAKE BELOW Sheer- strake in Wells.....}	<i>83</i>	<i>•</i>	<i>.42</i> <i>.68</i>	<i>.42</i>		<i>SINGLE</i>	<i>3/4</i>	<i>3</i>	<i>DOUBLE</i>	<i>3/4</i>	<i>2 5/8</i>	<i>Do.</i>	
STRAKE BELOW Sheer- strake in Bridge ...}	<i>83</i>	<i>.45</i>	<i>• • •</i>	<i>• • •</i>		<i>SINGLE</i>	<i>3/4</i>	<i>3</i>	<i>TREBLE</i>	<i>3/4</i>	<i>2 5/8</i>	<i>Do.</i>	
POOP SIDE PLATING	<i>• •</i>	<i>• •</i>	<i>• 32</i>			<i>SINGLE</i>	<i>3/4</i>	<i>3</i>	<i>SINGLE</i>	<i>3/4</i>	<i>2 5/8</i>	<i>Do</i>	
BRIDGE SIDE PLATING ...	<i>• 46</i>	<i>• •</i>	<i>• •</i>			<i>SINGLE</i>	<i>3/4</i>	<i>3</i>	<i>TREBLE</i>	<i>3/4</i>	<i>2 5/8</i>	<i>Do</i>	
FOREC'TLE SIDE PLATING	<i>• •</i>	<i>• 34</i>	<i>•</i>			<i>SINGLE</i>	<i>3/4</i>	<i>3</i>	<i>SINGLE</i>	<i>3/4</i>	<i>2 5/8</i>	<i>Do.</i>	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—					
Extending to Upper Deck (Sec. 8 c)			4 TO UPPER DECK!		
,, Deck next below			No.		
As per Rule			4 TO U.DK.		

	Plating Thickness,	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Tween decks ...					
" "	" "	" "			
" "	" "	" "			
" "	" "	" "			
" "	" "	" "			
" "	" "	" "			
BIDGE FRONT		. 32			
" "	" "	. 36	57½ × 3 × 40	26	* 2 WEBS EACH SIDE
" "	" "	. 34		30	
" "	" "	. 44	57½ × 3 × 40	34	- -
Holds 30			
(in Hold) 46	58½ × 3 × 44	24	- ✓
" "	" "	. 34			
AFTER PEAK		. 42	56½ × 3 × 36	24	- ✓

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	✓	✓	✓	✓
STEM	FORGING	7½ × 2½ ✓	HOWALDT.	✓
STERN FRAME { Propeller Post	DO	7½ × 5½ ✓	DO	✓
{ Rudder "	DO	6¾ × 5½ ✓	DO	✓
RUDDER—A × D 120	•	•	•	✓
Speed of Vessel 9	•	•	•	✓
RUDDER mainpiece at head ...	DO	7⅞	✓ DO	✓
" " heel ...	DO	4⅞	✓ DO	✓
" SHAFT	DO	6½ - 7½ ✓	DO	✓
" how constructed	KEYED ARMS.			✓
" double or single plate	SINGLE PLATE 15/16" DO.			✓
" coupling, vertical or horizontal	HORIZONTAL ✓			✓

STEEL

Manufacturer's name or trade mark of the Steel used in the construction of the Vessel (state process of manufacture) SIGMENS MARTIN OPEN HEARTH.
APPROVED GERMAN AND U.K. MANUFACTURERS.
Has the Steel been tested as required by the Rules? YES!

26 SEP 1924

EQUIPMENT No. 17000										LETTER R	ANCHORS.		
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.			
318	1st Bower	37	0	8	-	-	-	33	16	3	4	GRUSON STOCKLESS	15/9.23 M. BERG. DUSSELDORF.
178	2nd "	33	2	19	-	-	-	31	8	3	6	DO DO	3/5.22 K. HAUS DO.
322	3rd "	32	1	10	-	-	-	30	8	0	14	DO DO	2/9.23 M. BERG DO.
	Collective weight.	103	0	9									
392	Stream	8	1	13	3	1	24	10	10	0	0	DO STOLKANOR	2/4.24 M. BERG DO.

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-ory.	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.
83	283	1 3/4	55 1/2	77 1/2	353.3.6	350 3/8	240	1 3/4	STUDLINK	HANSA-KETTEN	3/7.24 JUL. QUAST DUSSELDORF.	TOWLINE...	90	3 1/2	36	90	3 1/2
Iron Stream Chain or Steel Wire	75	1 1/4	50			370 1/2	75	1 1/4	WIRE	CARBONIT KIEL	30/1.24 KIEL.	HAWSERS & WARPS	180	2 1/4	15	180	2 1/4
												"	180	5	HEMP	180	5
												"	180	6	HEMP	-	-

Steering Gear, Steam YES! ON BRIDGE DECK.

Steering Gear, Hand YES, ON POOP DECK.

Boats 2 a 21'-5" x 7'-1" x 33 1/2" ONE MOTOR BOAT.
1 a 16'-5" x 6'-5" x 25 3/4"

Steering Chains, Size and Test. QUADR. = 5'-0" CHAINS 7/8"

Windlass HORIZONTAL STEAM.

Ceiling in Holds, thickness and material 2 1/2" PINE.

Cargo Battens, thickness, material and spacing 6x2 PINE 8" SPACE BETWEEN.

Cargo Hatchways.—(Upper Deck) ORDINARY! STEEL PLATES & ANGLES. Thickness of Hatches 2 1/2" x 3" PINE.

Size of No. 1 Hatchway (Forward) 21'-8" x 16'-0" No. 2 30'-6" x 16'-0" No. 3 25'-7" x 16'-0" No. 4 21'-8" x 16'-0" No. 5 - No. 6 -

Number of Shifting Beams and/or Fore and Afters HATCH I = 4; No II = 5; No III = 5; No IV = 4; -

Builder's Signature

HOWALDTSWERKE

GENERAL DECLARATION This vessel has been built in accordance with the approved and amended plans, the requirements embodied in the Secretary's letters, and in all other respects in conformity with the Rules and Society's requirements. -

The workmanship is throughout good, all parts conforming well with each other and satisfactorily fitted together. -

The double bottom tanks and peak tanks have been filled and tested as required by the Rules and were found tight, also weather decks and bulkheads. -

The painting arrangements have been carried out as per plans approved and the bottom forward has been strengthened to the requirements of the Rules. -

Anchors & cables compared with certificates and found in order. -

Freeboard verified and found cut in on vessel sides as approved, corresponding to a maximum summer draught of 17'-8 1/4" as shown on Builders Displ. Scale. -

All steel material used in the construction of the vessel is Siemens Martin open hearth, made at works approved and tested by the Society's Surveyors in accord. with the Rules. -

The amount of Entry Fee £ 5 : 0 : 0

Special Survey Fee.... £ 153 : 18 : 0

Travelling Expenses, if any £ 17 : 2 : 0

Freeboard 6 : 0 : 0

State whether the Vessel has been built under Special Survey

Certificate to be sent to Hamburg

Date of issue

Fees applied for,

19. SEPT. 1924

Received by me,

LONDON.

I am of opinion the Vessel should be Classed 100 A1.

SUBJECT TO 15 FMS OF 1 3/4" CHAIN CABLE BEING SUPPLIED.

Signature

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUES. 30 SEP 1924

Character assigned

100 A1
Subject

Lloyd's Reg. O.

+ L.M.B. 8.24
O.G.W. H. H. H.
M. H.

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Lloyd's Register
Foundation

W696-02520-969M

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.)

List of Plans attached!

- No 1 : Section. -
No 2 : Profile. -
No 3 : Rudder and Stem frame. -
No 4 : Pumping Arrangements. -
No 5 : Details of Hatchways I. -
No 6 : Details of Hatchways II. -
No 7 : One Test Certificate for Forgings. -
No 8 : Freeboard verification Sheet. -
No 9 : Inter. Certificate. -
No 10 : Capacity Plan with Displacement Scale. -

The Chain Cable of this vessel is 15 Fathoms short by mistake of the Yard. As arranged the remaining 15 Fms should arrive the Yard in the last week, but it is now stated by the Klausa Kettenfabrik that this cable only could be delivered not before the end of this month. -

L. J. Kien.

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

1st Bower

2nd "

3rd "

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 25.58 ft., R.Q.D. --- ft., Bridge 160.12 ft., Forecastle 24.58 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated **NOT JOINED!**

No. and Material of Decks and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) **ONE DECK AND ONE TIER OF BEAMS. -**

Official No. 2

Signal Letters 2

If bottom of Vessel has been coated Inside **CEMENT** give

particulars of composition **AND CEMENT - WASH, DOUBLE BOTTOM TANK IN BOILER SPACE ASPHALT, OTHERWISE 3 COATS OF OIL PAINT. -**

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	82'-6"	197	Fore peak tank,	16'-0"	47
Double bottom, under Engines and Boilers,	45'-3"	131	After peak tank, } Upper	16'-0"	14
Double bottom, if under Engines only,	-	-	Deep tank, aft, }	24'-0"	60
Double bottom, if under Boilers only,	-	-	Deep tank, forward,	-	-
Double bottom, forward,	90'-6"	216	Other tanks, if fitted,	-	-
Total capacity of double bottom		544	(If necessary, furnish further information by sketch.)		
* The wells are not to be included in the lengths of the tanks.			TOTAL		665

Order for Special Survey No. 77

Date 5 SEPT. 1923.

Dates of Surveys held while building

1924: JUNE 24-28; JULY 24-30; AUG. 6-14-19-22-26-28-29-30



Lloyd's Register Foundation
Total No. of Visits 12