

STEEL STEAMER or MOTORSHIP.

Received at London Office

MAY 29 1940

State if Report has been sent on the Freeboard of the Vessel

State if Report is sent on the Machinery of the Vessel

Date of completion of report

27 MAY 1940

Port of

HULL

No.

50675.

Survey held at

Hull

Date First Survey

26. 3. 40.

Last Survey

12. 5.

1940

On the (State if Machinery fitted Aft and

Single Screw Steamer "EMPIRE SUCCESS"

ex "IXIA"

ex "HAGEN"

State Type (Full Scantling, Complete Superstructure

Full scantling

State Type of Erections

Combined poop & bridge

TONNAGE under Tonnage Deck

5501

CLASS 100A1 contemplated State if with freeboard

No

Built at

Hamburg

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

Total

Gross Tonnage

6009

Register Tonnage

3646

Length from fore part of stem to after part of stern

L 450

Breadth (greatest moulded)

B 58.27

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)

D 29.53

1st Longitudinal Number (L x D)

=

2nd Numeral L x (B + D)

=

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

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

Do. Long Bridge to top of keel

Draught Moulded

Launched

1921

Yard No.

Builders

Vulcan Werke

Owners

Ministry of Shipping

Managers

Union Castle Mail Steamship Co Ltd

Residence

Port of Registry

London

If surveyed while building, afloat, or in dry dock

Surveyed in drydock & afloat

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	27" ✓		Bracket Floors, Frame		
" " from $\frac{3}{8}$ length amidships to Collision bulkhead	27" ✓		" " Reversed Frame		
" " in peaks	23½" ✓		" " Vertical Struts		51" on plan
SIDE FRAMING.			Centre Girder, depth and thickness amidships	3'-8", ½"	
Frame Amidships, Angle, E or [	7.87, 3.34, .47 ✓		" " top Angles	3½" 3½" ½" ✓	
" " Extends up to Superstructure deck	✓		" " bottom Angles	5" 5" ½" ✓	51" on plan
Reversed Frame Amidships, Angle	5.12, 2.95, .39 ✓		Side Girders, No. each side and thickness	2" .4" ✓	
" " Extends up to Superstructure Dk.	✓		Margin Plate depth (excl. of flange) and thickness	4½" .50" ✓	
Depth of Framing Girder	9" ✓		" " Vertical Angle to Tank side Bracket abaft ½ len. from stem	3" 3" .45" ✓	
Frames in Uppermost Continuous 'tween Decks, Angle, E or [	7.87, 3.34, .47 ✓		" " Vertical Angle to Tank side Bracket from forward ½ len. from stem to Panting Area	3½" 3½" .5" ✓	
" " Second 'tween Decks, Angle, E or [	" ✓		" " Gussets, spacing and scantling abaft ½ len. from stem	Every frame .4" ✓	
" " E & B spaces, 4 web frames on 5" frames 20" x 5" ✓			" " Gussets, spacing and scantling from forward ½ len. from stem to Panting Area	20" .3" ✓	43" on plan
" " from ½ len. for'd. to 15% len. from Stem	8.66, 3.34, .47 ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	5'9", .24" ✓	
" " in Peaks, Angle or [	7.87 " " ✓		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	½" 5" pitch ✓		Breadth and thickness of Middle Line Strake	3'-6", ½" ✓	
State if Frame Joggled	Not joggled ✓		Thickness of remainder in Holds	7" .6" ✓	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	3rd stringer either side, 8" x 3½" x ½" angled 16" 12" frame from bbl. Additional girders in DBT No. 1 ✓		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?	T.T. increased in E & B and other girders fitted in DBT. ✓	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Additional girders in DBT No. 1 ✓		BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle, E or [	9" 3½" ½" ✓	
Floors, Depth and thickness at mid-line in Holds			" " in way of Bridge, Angle, E or [" " " ✓	
Height of Brackets at side above base line at toe of frame			Spacing	on every frame ✓	
Middle Line Keelson, on Floors, Angles, [or]			Second Deck, amidships, Angle, E or [	9.8, 3.5, .5 ✓	
" " Through Plate or Intercoastal Plate			Spacing	on every frame ✓	
" " Foundation Plate on Floors			Third Deck, amidships, Angle, E or [	10.6, 3.5, .6 ✓	9.84 x 3.5 x .55
" " Flat Plate Keel Angles			Spacing	on alternate frame ✓	
Side Keelsons, No. each side			Fourth Deck, amidships, Angle, [or]		
" " thickness of Intercoastal Plate			Spacing		
" " Angles			Poop Deck, Angle, E or [	7.9, 3.4, .5 ✓	
DOUBLE BOTTOM.			Spacing	on every frame ✓	
Solid Floors, thickness and spacing	4" 27" ✓		Bridge Deck, Angle, E or [	do. ✓	
" " Are Frame and Reversed Frame joggled?	Frame joggled. 6" frame not joggled ✓		Spacing	do. ✓	
Bracket Floors, breadth and thickness at middle line			Forecastle Deck, Angle, E or [	10.6, 3.5, .6 ✓	
" " breadth and thickness at margin plate			Spacing	on alternate 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.....	2		Stringer Plate, breadth and thickness in way of Bridge	60 .33 ✓	
" in 'tween Decks, Size and Spacing.....	rows of		Thickness of Plating abreast Deck openings in way of Wells .....	.33 ✓	
" " " " "	wide spaces		Thickness of Plating abreast Deck openings in way of Bridge .....	.33 ✓	
" in Holds " "	hollow pillars		Thickness of Plating within line of openings...	.33 ✓	
" " " " "	in conjunction with girders & beams.		If Sheathed, material and thickness	not sheathed ✓	
Centre Line Bulkhead.			Third Deck, in NO1 hold.		
Stiffeners and Spacing.....			Stringer Plate, breadth and thickness.....	40 .4 ✓	.43 on plan
Plating, thickness of			If Plated, state thickness. <i>See plate W.P. Sheathing (span)</i>	18 ✓ .45 2 1/2 ✓	spanning
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	60 .33 ✓	
Stringer Plate, breadth and thickness in Wells	55 .55 ✓	Scales 63" on plan	If Plated, state thickness	2 1/2 ✓	
" " " " in way of Bridge	55 .45 ✓		Poop Deck.		
" Angle in Wells	5 .5 .45 ✓	.51 on plan	Stringer Plate, breadth and thickness	67 36 ✓ .75 .45 ✓	.43 to .31 on plan
Thickness of Plating abreast Deck openings in way of Wells .....	.4 ✓		Plating, Sheathing, material and thickness ...	steel .33 ✓	
Thickness of Plating abreast Deck openings in way of Bridge .....	.5		Bridge Deck.		
Thickness of Plating within line of openings...	.33 ✓		Stringer Plate, breadth and thickness.....	47 .75 ✓	
If Sheathed, material and thickness	not sheathed		Plating, Sheathing, material and thickness ...	steel .45 ✓	
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	60 .33 ✓	Scales 63" on plan	Stringer Plate, breadth and thickness.....	40 .35 ✓	.38 on plan
			Plating, Sheathing, material and thickness ...	steel deck .3 ✓	
				3 ✓	

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.					
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	RIVETS.	No. of Rows of Rivets.	RIVETS.		STRAPPED OR LAPPED.		
	Breadth.	Thickness.	Thickness.	Thickness.					Diam.	Spacing or to cr.		Diam.	Spacing or to cr.
	Inches.	Inches.	Inches.	Inches.					Inches.	Inches.		Inches.	Inches.
FLAT PLATE KEEL	30	Cent	Cent	Cent		double	1.22	3.86	1.22	4.25	lapped		
" DELG. (if any)	77	"	.59	"		"	.87	3.35	.87	3.46	"		
BOTTOM PLATING, No. of Strakes	75	"	"	.46		"	"	"	"	"	"		
	76	"	.59	5.43		"	"	"	"	"	"		
BILGE PLATING, No. of Strakes	72	.63	.59	.47		"	"	"	"	"	"		
	81	.59	.59	.50		"	"	"	"	"	"		
SIDE PLATING, No. of Strakes	80	.57	.59	.47		"	"	"	"	3.07	"		
	80	.55	.59	.47		"	"	"	"	"	"		
UPPER DECK, Sheer-strake in Wells	80	.55	.47	.47		"	"	"	"	"	"		
UPPER DECK, Sheer-strake in Bridge	80	.55	.79	.55		"	"	"	"	"	"		
STRAKE BELOW Sheer-strake in Wells	80	.55	.55	.55		"	.98	3.86	"	"	"		
STRAKE BELOW Sheer-strake in Bridge	80	.60	.55	.55		"	.87	3.35	"	"	"		
POOP SIDE PLATING	77		.47	.47		"	"	"	"	"	"		
BRIDGE SIDE PLATING	56	.80				"	"	"	"	.98	3.46		
FORE'C'TLE SIDE PLATING	70	.43				double	.75	2.7	double	.75	2.7		

WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c)	8 ✓
" Deck next below	8 ✓
As per Rule	7

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar		<i>Knee plate</i> ✓		
STEM		$265 \times 75 = 10' 4'' \times 9''$ ✓		
STEERN FRAME {	Propeller Post	$280 \times 215 = 11' 8'' \times 8''$		
	Rudder	$270 \times 230 = 10' 6'' \times 9''$		
Speed of Vessel		$10 \text{ to } 12 \text{ knots (static)}$		
RUDDER—Type	1"	<i>Knee plate to plan</i> ✓		
" A x D				
" Diam. of head		$12.2''$ ✓		
" Mainpiece at top pintle		$12.2''$ ✓		
" " heel ...		$9''$ ✓		
" how constructed		<i>Forges (static)</i> ✓		
" double or single plate coupling, vertical or horizontal		<i>Single with additional Ocean line plates</i> <i>Horizontal</i>		

STIFFENERS.

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D.	Upper tween decks	• 2 ✓	3, 2, 25	30 ✓		
"	Second "	• 3 ✓	5, 9, 28, 35	24" to 30" ✓		
"	Third "					
"	Holds	• 4 ✓	9, 5, 3, 5, 51	30" ✓		
COLLISION	(in Hold) ^{41 on Deck}	• 4 ✓	10, 6, 3, 5, 51	24" ✓		
AFTER PEAK	"	• 4 ✓	5, 9, 3, 4	25" ✓		

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)

STEEL.

Has the Steel been tested as required by the Rules?

EQUIPMENT No 42, 549 LETTER (P+) ANCHORS. 28, 15.
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.

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.

Steering Gear, Type (Power or hand) Steam Alternative Means of Steering Double hand wheel screw.
Steering Chains (Size and Test) 1 1/2 Windlass Steam Boats 4 class 1
Ceiling in Holds, thickness and material 2 1/2" WP Cargo Batches, thickness, material and spacing 2" x 6" WP closely spaced.
Cargo Hatchways. (Upper Deck) Steel with cast steel cornices Thickness of Hatches 3"
Size of Hatchways No. 1 (Fwd.) 18' x 18' No. 2 33.5' x 18' No. 3 (A) 20' x 18' No. 4 20.4' x 18' No. 5 20.4' x 18' No. 6 20.4' x 18'
Number of Shifting Beams and/or Fore and Afters 3 6 5 3 3 3
Builder's Signature

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).
It is stated that this vessel was built to Germanischer Lloyd Survey.
The scantlings have been verified in conjunction with attached plans, and found to agree substantially with them except that amendments in black & red ink have not been fitted as noted on profile & midship section plans.
The workmanship and materials appear good.
The vessel, in our opinion, is eligible to be classed in the Register Book 100 A1 on completion of the Classification Survey.

The amount of Entry Fee £ Fees applied for See bill to hull 30.5.19
Special Survey Fee.... £ 120: - - Received by me, 6th July 1940
Travelling Expenses, if any £ 17: - - I am of opinion the Vessel should be Classed 100 A1 on completion of Classification Survey
State whether the Vessel has been built under Special Survey Yes, to have been to Germanischer Lloyd Classification. Signature W. S. Shields & A. C. P. Jones, Surveyors to Lloyd's Register of Shipping.
Certificate to be sent to Date of issue

Committee's Minute FRI. 21 JUN 1940
Character assigned 100 A1 Class Contemplated
Examiners J. H. O.
Wife and Mrs. Jones
Lloyd's Register Foundation

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.)

The original scantlings submitted on attached plans of S.S. Bochum substantially agree with those of "Empire Success" & Isis ex Hagen. The amendments, however, have not been fitted to the "Hagen".

Take photo stat
copies before returning
plans to Owners

PARTICULARS OF ELECTRIC WELDING (if employed)

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

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 ft., R.Q.D. ft., Bridge ft., Forecastle 65 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated. Poop and Bridge continuous

Official No. 167430 Signal Letters Extreme Breadth over Belting 58.4 Over-all Length 469.2'

No. and Material of Decks 2 decks, steel. 3rd deck in no. hold.

Parts of Bottom of Vessel coated with cement or approved composition Part cement. Part asphalt.

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,	153	531	Fore peak tank,	18	63
Double bottom, under Engines and Boilers,	✓	✓	After peak tank,	✓	10
Double bottom, if under Engines only,	33.9	174	Deep tank, aft,	✓	✓
Double bottom, if under Boilers only,	42.9	220	Deep tank, forward,	✓	✓
Double bottom, forward,	175.3	531	Other tanks, if fitted,	✓	✓
Total length (if continuous) and Capacity	405.1	✓	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. ✓

Date

Dates of Surveys held while building

1940. MAR. 26, 28, Apr. 1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, 29, 30, MAY 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12.

Total No. of Visits 38.