

Rpt. DISCLOSED
SECTION
No. 823 B

N/N "LIVERPOOL MARU" STEEL STEAMER OR MOTORSHIP

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

Received at London Office

State if Report is sent on the Machinery of the Vessel

DISCLOSED
SECTION

No. 823 B

No. 1073

1945

Date of completion of report 26/5/45

Port of KARACHI

Survey held at Karachi

Date First Survey March 1944 Last Survey 3/3/1945

On the (State if Machinery fitted Aft and
if Single, Twin or Triple Screw) S.S. "EMPIRE RAJA"

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

State Type of Erections P. B. 17

TONNAGE under
Tonnage Deck 5753

CLASS 100A -

State if with freeboard
as condition of Class 20

Built at Wesermünde S

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 429.8

Launched 1922 Yard No. 277

Total

Breadth (greatest moulded) B 56.25

Builders J. C. Tecklenburg

Gross Tonnage 6224

Depth, at middle of length from top of keel to top
of beam at side of uppermost continuous
deck. See Sec. 3 (1c) D 32.8

Owners Min. of War Transport

Register Tonnage 3794

1st Longitudinal Number (L x D) = 14097

Managers P. O. Star Line, B. L.

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

REGISTERED DIMENSIONS.

Length 431.1

Framing Depth "d," at middle of length. See
Sec. 3 (1d) 19.00

Residence

Breadth 56.5

Proportions—Depth to Length—Uppermost con-
tinuous deck to top of keel 1/13.1

Port of Registry London

Depth 30.2

Do. Long Bridge to top
of keel

If surveyed while building, afloat, or in dry dock

afloat and built

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 1/2 length amidships to Collision bulkhead	27		" " Reversed Frame		
" " in peaks	25		" " Vertical Struts		
IDE FRAMING.			Centre Girder, depth and thickness amidships	44	62
Frame Amidships, Angle, E or F	11 32.50		" " top Angles	4	4.50
" " Extends up to	turn deck		" " bottom Angles	5	5.50
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	Two	.44
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	34	.50
Depth of Framing Girder	11		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	6	6.56
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	8 1/2 32.50		" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area	6	6.56
" " Second 'tween Decks, Angle, E or F			" " Gussets, spacing and scantling abaft 1/2 len. from stem	54	33 x 18 x .38
" " Third " " " "			" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area		Ditto.
" " from 1/2 len. for'd. to 15% len. from Stem	11 32.50		Tank Side Brackets, height above base line at toe of Frame and thickness	72 1/2	
" " in Peaks, Angle, E or F	8 1/2 32.50	with 6 x 3 x .44 L	INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships	5		Breadth and thickness of Middle Line Strake	40	.74
State if Frame Joggled	no.		Thickness of remainder in Holds		.50
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	Yes or equivalent		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	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Not seen in No. 1. tank		BEAMS.		
DOUBLE BOTTOM.			Uppermost Continuous Deck, amidships	8	32.50
Decks, Depth and thickness at mid-line in Holds			" " in Wells, Angle, E or F		
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, E or F	8	32.50
Middle Line Keelson, on Floors, Angles, E or F			Spacing	27	
" " Through Plate or Intercostal Plate			Second Deck, amidships, Angle, E or F	10 1/2 32.50	
" " Foundation Plate on Floors			Spacing	27	
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, E or F		
Keelsons, No. each side			Spacing		
" " thickness of Intercostal Plate			Fourth Deck, amidships, Angle, E or F		
" " Angles			Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle, E or F	7	3.38
Mid Floors, thickness and spacing	44	23	Spacing	25	
" " Are Frame and Reversed Frame joggled?	no		Bridge Deck, Angle, E or F	8	32.50
Bracket Floors, breadth and thickness at middle line			Spacing	27	
" " breadth and thickness at margin plate			Forecastle Deck, Angle, E or F	8	32.38
			Spacing	25	

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011062-011070-0134

PILLARS AND DECKS.

PILLARS, No. of Rows.....	INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
	INCHES.	THICKNESS.		INCHES.	THICKNESS.
Stringer Plate, breadth and thickness in way of Bridge.....	66	.44			
Thickness of Plating abreast Deck openings in way of Wells.....		.38			
Thickness of Plating abreast Deck openings in way of Bridge.....		.38			
Thickness of Plating within line of openings.....		.38			
If Sheathed, material and thickness.....					
Third Deck.					
Stringer Plate, breadth and thickness.....					
If Plated, state thickness.....					
Fourth Deck.					
Stringer Plate, breadth and thickness.....					
If Plated, state thickness.....					
Poop Deck.					
Stringer Plate, breadth and thickness.....	63	.38			
Plating, Sheathing, material and thickness.....		.32			
Bridge Deck.					
Stringer Plate, breadth and thickness.....	63	.56			
Plating, Sheathing, material and thickness.....		.38			
Forecastle Deck.					
Stringer Plate, breadth and thickness.....	61	.32			
Plating, Sheathing, material and thickness.....		.32			

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.			SINGLE OR DOUBLE.	Diam.		Spacing cr. to cr.	Diam.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.	
FLAT PLATE KEEL	51	1	1	.51		Double	1 1/2	4	3	1 1/2	4	Strapped
„ DELG. (if any)	u					-						
BOTTOM PLATING, No. of Strakes{		.60	{ .60	{ .47		Double	4/8	3 3/4	4	1	3 3/4	Lapped
of Strakes{		.60	{ .46	{ .54								
		.62	{ .46	{ .62								
BILGE PLATING, No. of Strakes62	.48	.49			Double	4/8	3 3/4	4	1	4	Lapped
SIDE PLATING, No. of Strakes						Double		3 1/2	4		3 1/2	Lapped
UPPER DECK, Sheer-strake in Wells.....						"		4	4		4	"
UPPER DECK, Sheer-strake in Bridge ...					at bridge ends	"		3 1/2	3		4	Double but
STRAKE BELOW Sheer-strake in Wells.....						"		3 1/2	4		3 1/2	Lapped
STRAKE BELOW Sheer-strake in Bridge ...						"		3 1/2	4		3 1/2	"
POOP SIDE PLATING						"		3	2		3	"
BRIDGE SIDE PLATING ...						"		4	4		3 1/2	"
FORECASTLE SIDE PLATING						"		3 1/2	2		3	"

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel.....	Six in holds
Extending to Upper Deck (Sec. 3 c).....	Eight in lower decks
" Deck next below.....	
As per Rule.....	

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar.....				
STEM.....	Forg.	12x3		
STERN FRAME.....				
Propeller Post.....				
Rudder.....				
Speed of Vessel.....				
RUDDER-Type.....				
" A x D.....				
" Diam. of head.....				
" Mainpiece at top pintle.....				
" heel.....				
" how constructed.....				
" coupling, vertical or horizontal.....				

STEEL.

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

Has the Steel been tested as required by the Rules?

EQUIPMENT No.

LETTER

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.
1st Bower.....	not known					Stockless		
2nd ".....	"					"		
3rd ".....	68 3 12					"		
Collective weight.....	not known					with stock		

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.	Stat. Break. ing.	Supplied.	Per Rule.	Length. Diam.				Length. Cir.	Tons.	Length. Cir.
	Fathoms. Ins.	Tons.	Owls. qrs. lbs.	Owls.	Fathoms. Ins.				Fathoms. Ins.		Fathoms. Ins.
	262.5	2 3/8							Wire	60	5 1/2
									TOWLINE.....	120	3 1/2
									HAWERS & WARPS		
									3 at 120	4	8
									Monitor at 120		
Iron Stream Chain or Steel Wire	120	5									

Steering Gear, Type (Power or hand).....	Steam driven	Alternative Means of Steering.....	Right hand screw
Steering Chains (Size and Test).....	1 5/8" 16 tons	Windlass.....	Steam driven
Ceiling in Holds, thickness and material.....	none	Cargo Battens, thickness, material and spacing.....	Wood 7 1/2 x 2 "space 16"
Cargo Hatchways.-(Upper Deck).....	fix	Thickness of Hatches.....	2 1/2"
Size of Hatchways No. 1 (Fwd.).....	18'6" x 14'9"	No. 2.....	31'8" x 16'9"
No. 3.....	16'2" x 14'6"	No. 4.....	25'3" x 14'10"
No. 5.....	25'3" x 14'10"	No. 6.....	20'9" x 12'6"
Number of Shifting Beams and/or Fore and Afters.....	none		

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
(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo
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).

This vessel has ~~outside~~ tanks, one amidships and one abt the engine room. These tanks have not been tested, and it is recommended that they are not to be used, as tanks, until tested.

The vessel requires to be examined in dry dock for particulars of underwater parts including drilling of shell plating

The amount of Entry Fee.....	£3. 150/-	Fees applied for,.....	1/4 1945
Special Survey Fee.....	£	Received by me,.....	19
Travelling Expenses, if any.....	£3. 35/-		

(Special notations, where part of class, to be stated.)

I am of opinion the Vessel should be Classed 100A- upon completion

State whether the Vessel has been built under Special Survey.....	20
Certificate to be sent to.....	Ref. London
Date of issue.....	6/12/46

Signature

Dane Rundle
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 5 OCT. 1945

Character assigned

See minute on Rpt. 8



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Lloyd's Register
Foundation

011062-011070-0134 2/2

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 copy of the Plans should be embodied.)

The vessel was examined afloat

Plans now forwarded: Midship Section ✓
Painting Arrangements in No. 1 Hold. ✓

Length of vessel Differences between lengths as now measured and as given in the R.B. were found:

Length of Bridge 125.4 feet (The overhang aft on each side of the steering engine house is 11.3 feet and this is not included)

Poep bulkhead to after side of rudder post 61.8 feet
Poep " " extreme after end 80.4 feet

Anchors according to information obtained from the Agents & the previous German Owners the weight of each lower anchor is 3520 kg.

PARTICULARS OF ELECTRIC WELDING (if employed)

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

The vessel is fitted with Direction Finding and Submarine sounding device but, these are not calibrated and are not in use.

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 Poep 61.8 ft., R.Q.D. - ft., Bridge 125.4 ft., Forecastle 57 ft. (in feet and tenths). When the Poep or Forecastle are joined to the B.D., this should be distinctly stated

Official No. 168220

Signal Letters BCRS

Extreme Breadth over Belting (Circ. 1611)

Over-all Length (Circ. 1703)

450.9

No. and Material of Decks

Two

Steel

Parts of Bottom of Vessel coated with cement or approved composition

all double bottom and peak tanks

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 fitted) are to be included.)

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	135	497	Fore peak tank,	20	57
Double bottom, under Engines and Boilers,	33	122	After peak tank,	15	4
Double bottom, if under Engines only,	39	150	Deep tank, aft,	35	48
Double bottom, if under Boilers only,	169	620	Deep tank, forward,	37	54
Double bottom, forward,		1389	Other tanks, if fitted,		
Total length (if continuous) and Capacity	386'				

not continuous. Cofferdam at each end of E.R. tank

Order for Special Survey No.

Date

Dates of Surveys held while building



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