Awning or Shelter Deck, or Pt. Awning Deck.

STEEL STEAMER.

No. 2916

State if Report is also sent on the Machinery of the Vessel Yes

Port of Kobe — Date of completion of Report June 3rd 1920 — Received at London Office TUE. SEP 28 1920

Survey held at Osaka — Date, First Survey 3rd Decr 1919. — Last Survey 27th May 1920

On the (*State if Single, Twin, or Triple Screw*) Single Screw Steamer "ETNA MARU" — Rig 2 masts

CLASS ✠100 A.1. SHELTER DECK WITH FREEBOARD.

TONNAGE under Tonnage Deck	0
Do. between Tonnage Dk. and 3rd, 4th, or Awning Dk.	
Total under Upper Dk.	6111·47
Do. of Poop	89·52
Do. of R. Qr. Dk.	✓
Do. of Bridge House	528·22
Do. of Forecastle	85·48
Do. of Houses on Deck	146·00
Do. of excess of Hatchways	44·74
Do. above Crown of	139·05
ge	7144·48
e	239·68
n of	
EES.	
om	1569·51
Spaces	72·87
"	61·02
nnage	5201·40

	Feet.
Breadth (*greatest moulded*)	55·50
Depth, *at middle of length from top of keel to top of beams at side of uppermost Continuous Deck*	26·66
Deduct *height of 'tween deck when this does not exceed 8ft.*	✓
Transverse Number	82·16
Length *on deck from fore part of stem to after part of sternpost*	415·00
Longitudinal Number	34100
Depth "d" *at middle of length. See Secs. 2 & 13*	24·66
Proportions, *Depths to Length, Uppermost Continuous Deck at side to top of keel*	11·97
" " " *Upper Deck at side to top of keel*	9·78

Master Y. HAMADA.

Year of Appointment { (1) *As Master in service of owner of present vessel:*—191.. (2) *As Master of this vessel* 191.. }

Built at OSAKA

When built 1920 Launched 1st May, 1920

By whom built The Osaka Ironworks Ltd.

Owners KOKUSAI KISEN KABUSHIKI KAISHA

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

Residence KOBE

Port belonging to OSAKA.

Destined Voyage — If Surveyed while Building, Afloat, or in Dry Dock BUILDING.

	Ft.	Ins.		Ft.	Ins.		Ft.	Ins.	
on Rule	415	0	**BREADTH** — Moulded	55	6	**DEPTH, ACTUAL**—Top of Floors to top of Awn. or Shelter Dk. Beams	32	0	No. of Decks with flat laid 2
						Do. do. Upper Deck Beams	22	0	No. of Tiers of Beams 2

Ship per Register, length 415·0 breadth 55·50 depth. — 34·66 Awn. or Shelter Dk. — Moulded depth, ft 34 ins. 8 To Awning or Shelter Dk. — 24·66 Upper Deck. — Moulded depth, ft 24 ins. 8 To Upper Dk. — Round up of Uppermost Dk. Beam, Actual 13½ ins.

FRAMING.

	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as	Inches per Rule Appro	Inches per Rule ved.
ngles, or ⊏ or ⊏ Bars, amidships						
eaks in after Peak only	6	3½	·38	6	3½	·38
way of Double Bottoms at Solid Floors						
" at intermdt. Bkts.						
Frames from centre to centre amidships	Longitudinal Framing.					
" " " from ⅜ length to collision bulkhead						
Frames from centre to centre in peaks						
ED FRAME, Angles after Peak only	3½	3	·38	3½	3	·38
way of Double bottoms at Solid Floors						
" " at intermdt. Bkts.						
NG, depth of girder after Peak		6"			6"	
S, depth and thickness of Floor Plate at mid-line for ¾ length amidships						
n way of Engine and Boiler spaces						
thickness at the ends of vessel						
depth at ¾ the half-bdth. as per Rule						
height extended at the Bilges						
RS, in **Cell Double Bottoms**	·40-·36	×·50	BS	·40-·36	×·50	BS
state if flanged (top and bottom)		NO			NO	
spacing of Solid	5-5½	×6	feet	5-5½	×6	feet
RE GIRDER, in Dbl. bottom., dpth. & thicknss	44"	×·52-·42	·60 BS	44"	×·52-·42	·60 BS
" Angles, Top	3½	×3½×·52-·48		3½	×3½×·52-·48	
" " Bottom	5	×5×·60-·56		4½	×4½×·60-·56	
" " to Floors	6	×6×·44-·54	BS	6	6	·44
Brackets at intermdt. frmg., wdth & thknss	✓	✓	✓	✓	✓	✓
GIRDERS, number and thickness 2	·40-·36	·50	BS	·40-·36	·50	BS
" state if flanged (top & bottom)		NO			NO	
Angles	3½	×3½×·42-·40		3½	×3½×·42-·40	
GIN PLATE, depth (exclusive of flange) and thickness	36"	×·48-·58	BS	36"	×·48-·58	BS
" Angles to outside plating	4	4	·48	4	4	·48
" " to floors	6	×3½×·44-·54	BS	6	3½	·44
" Brackets at intermdt. frmg., wdth & thknss		✓			✓	
" Height of Brackets above at bilge		✓			✓	
ER BOTTOM PLATING, breadth and thickness of **Middle Line Strake**	44"	×·52-·42		44"	×·52-·42	
" " thickness in Engine and Boiler space	·56 BS	·50 ER		·56 BS	·50 ER.	
" " " Remainder in Holds	1" under Engines	·40-·36		1" under Engines	·40-·36	
AMS, Awng or Shltr Dk, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel						
Spacing						
AMS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel						
Spacing						
AMS, Second, Third & Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel						
" Angles on upper edge	Longitudinal Framing.					
" Spacing						
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel						
" Angles on upper edge						
" Spacing						
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel						
" Angles on upper edge						
" Spacing						
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel						
" Angles on upper edge						
" Spacing						

PILLARS.

	Inches. Size in Ship.	Inches. Spacing in Ship.	Inches. per Rule. Or as	Inches. per Rule. Approved.
PILLARS, In 'tween Deck, size and spacing	10"×8"×·50	×3·5	8"×·40×3·40	×·601
" " **Hold** " " ⊥	×·50 as approved			36'·0
" **Quarter, 'tween Dks.,** " " ◎	15"×·60		15"×·60	36'·0
" " **in Hold** " "	16"×·60		16×·60	as approved
	18"×·64	×·60	18×·64	

KEELSONS AND STRINGERS.

	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as	Inches per Rule Approved.	
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercostal Plate						
" Rider Plate						
" Flat Keel Plate Angles						
" Horizontal Plates on Floors						
" Angles or Bulb Angles						
SIDE KEELSONS, Number						
" Angles or Bulb Angles						
" Plate above floors, for ..... length						
" Intercostal Plate, for ..... length						
" Attached to outside plating with Angle						
BILGE KEELSON, Angles						
" Intercostal Plate, for ..... length						
" Attached to outside plating with Angle						
SIDE STRINGERS, Number						
" " Angle						
" " Intercostal Plate, for ..... lng.						
" Attached to outside plating with Angle						
Awning or Shelter Deck Stringer Plates, breadth and thickness	57"×·58	to ·35"×·44		57"×·58	to ·35"×·44	
" Angle on ditto	5"×5"×·60			5×5×·60		
" Tie Plates, fore and aft, outside Hatchways	3½×3½×·44	at ends		3½×3½×·44	ends	
" Deck.* ~~Iron or~~ Steel, for whole lng.	·40-·34			·40-·34		
" Wood Deck. Material & thickness	✓			✓		
Upper Deck Stringer Plate, breadth and thickness	·44-·40			·44-·40		
" Angles on ditto, No.	3½×3½×·44			3½×3½×·44		
" Tie Plates, outside Hatchways	✓			✓		
" Deck.* ~~Iron or~~ Steel, for whole lng.	·36-·34			·36-·34		
" Wood Deck. Material & thickness	✓			✓		
Second Deck Stringer Plates, br'dth & thickn's						
" Angles on ditto, No.						
" Tie Plates, outside Hatchways						
" Deck.* Material and thickness						
Third, Fourth & Fifth Deck Stringer Plate, breadth and thickness						
" Angles on ditto, No.						
" Tie Plates, outside Hatchways						
" Deck. Material and thickness						
Poop Deck Stringer Plate, breadth & thickness	·30			·30		
" Angles on ditto	3½×3½×·36			3½×3½×·36		
" Tie Plates	✓			✓		
" Deck. Material and thickness Steel	·30			·30		
Bridge Deck Stringer Plate, br'dth & thickness	53"×·52			53"×·52		
" Angle on ditto	5×5×·60			4½×4½×·60		
" Tie Plates	✓			✓		
" Deck. Material and thickness Steel	·38			·38		
Forecastle Deck Stringer Plate, b'dth & th'kns	35"×·36			35"×·36		
" Angle on ditto	3½×3½×·36			3½×3½×·36		
" Tie Plates	✓			✓		
" Deck. Material and thickness Steel Sheathed	·24			·24		

* *If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.*

Form No. 1B. 1m,8,18. T.

WEB FRAMES.

	Inches in Ship.	Inches in Ship.	Inches per Rule. Or as Approved.	Inches per Rule. Or as Approved.
WEB-FRAMES, In Fore Body, No. and spacing				
,, ,, ,, brdth. & thickness				
,, No of Side Stringers ,, ,,				
WEB-FRAMES, In E. & B. Space, No. & spacing				
,, ,, ,, brdth. & thickness				
WEB-FRAMES, In After Body, No. and spacing				
,, ,, ,, brdth. & thickness				
,, No. of Side Stringers ,, ,,				
,, Size of Face Angles to **Web-Frames**				
BRACKET PLATES to Stringers between Web Frames, depth and thickness				

FORGINGS or CASTINGS.

	Inches in Ship.	Inches per Rule, Or as Approved.
KEEL, Bar, depth and thickness	Plate Keel	
STEM, moulding and thickness Forged Steel	10½" × 2¾"	
STERN-POST for Rudder do. do.	9" × 7½"	
,, for Propeller	10½ × 7½"	
RUDDER—A×D² Table 22. Speed Under 12 Knots	638·25	
,, **Main-Piece,** diameter at head	11"	
,, ,, ,, at heel	8¼"	

RUDDER, how constructed Steel plate Movable Arms

,, Thickness of Plates or Single Plate 1·10"

Can the Rudder be unshipped afloat? Yes.

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c.? U.S. Products Co. - Interstate Iron & Steel Co. Colorado Fuel & Iron Co. - Midvale Steel - Ordnance Co. Inland Steel Co. Jones & Laughlin Steel Co.

Has the Steel been tested as required by the Rules? Yes.

BULKHEADS.

	Number. Vessel.	Number. Per Rule.	Thickness. Inches.	Stiffeners. Horizontal. Size. Inches.	Stiffeners. Horizontal. Spacing. Inches.	Stiffeners. Vertical. Size. Inches.	Stiffeners. Vertical. Spacing. Inches.	Single or Double Frames.	Height up, state deck.
W.T. BULKHEADS	AP	38-28	10×·375×3·276×4·276 / 6×·38×3·5×·375			21½		Single	Upper
	29	40-32	8×·50×3·60×·50 / 7×·38×3·32×·50	Web		26×·40	9·0"		"
	35	44-36	8×·50×3·6×·50 / 7×·50×3·5×·50 / 6×·38×3·5×·375	"	"	"	"		"
			6×3·5×·375			43			Shelter
,, COLLISION ,,			12×·47×3·76×·70			21½			Upper
,, PARTITION ,,	45	34-26	8×·50×3·6×·50			43			Shelter
LONGITUDINAL ,,	51	·30	8×50×3·6×·50			21½·22½			Upper
	65	·30	10×·375×3·375×·43	"	"	21½			"
	F.P.	46-26	12×·47×3·76×·70 / 6×3·5×·375			26			Shelter

Are the outside Plates doubled two spaces of Frames in length? No

Same for Beams fitted as approved

Are the Sluice Valves and Watertight Doors in efficient working order? Yes

PLATING.

STRAKES.	As in Ship. Amidship. Breadth. Inches.	Amidship. Thickness. Inches.	Forward. Thickness. Inches.	Aft. Thickness. Inches.	Per Rule or As Approved. Amidship. Breadth. Inches.	Per Rule or As Approved. Amidship. Thickness. Inches.
FLAT PLATE KEEL (To Bar Keel, Side Riveting.)		·96	·68	·68		·96
GARBOARD or A Strake		·62	·46	·46		·62
B ,,		"	"	"		"
C ,,		"	"	"		"
D ,,		"	"	"		"
E ,,		"	"	"		"
F ,,		"	"	"		"
G ,,		·60	·44	·44		·60
H ,,		"	"	"		"
J ,,		"	"	"		"
K ,,		"	"	"		"
L ,,		"	"	"		"
M ,,	61"	"	"	"		"
N ,,		"	"	"		"
O ,,		·62	"	"		·62
P ,,						
Q ,,						
R ,,						
S ,,						
T ,,						
U ,,						
V ,,						
W ,,						
THICKNESS OF SHEERSTREKE CLEAR OF LONG BRIDGE		·72 / ·90 at Bridge ends	·44	·44		·72
DO. OF STRAKE BELOW		·62	·44	·44		·62
DBLG. of Flat Plate Keel ,, Sheerstrakes (Length and thickness.)						as approved
POOP SIDES				·38		·38
SHORT BRIDGE SIDES			·42			·42
FORECASTLE SIDES						

RIVETING.

STRAKES.	Edges, Ordinary or Joggled?	Single or Double.	Breadth of Lap. Inches.	Rivets. Diam. Inches.	Rivets. Spacing cr. to cr. Inches.	Butts. Double or Treble and for what Length.	Rivets. Diam. Inches.	Rivets. Spacing cr. to cr. Inches.	Straps. Breadth. Inches.	Straps. Thickness. Inches.	If Lapped. Breadth. Inches.	If Lapped. For what Length. Feet.
FLAT PLATE KEEL	Ordinary	Double	6¼	1⅛	4½	Quad & Treble	1⅛	4½			16·12	
GARBOARD or A Strake		"	5¼	⅞	3½	Treble	⅞	3½			9·7½	
B ,,		"	"	"	"	"	"	"			"	
C ,,		"	"	"	"	"	"	"			"	
D ,,		"	"	"	"	"	"	"			"	
E ,,		"	"	"	"	"	"	"			"	
F ,,		"	"	"	"	"	"	"			"	
G ,,		"	"	"	"	"	"	"			"	
H ,,		"	"	"	"	"	"	"			"	
J ,,		"	"	"	"	"	"	"			"	
K ,,		"	"	"	"	"	"	"			"	
L ,,		"	"	"	"	"	"	"			"	
M ,,		"	"	"	"	Trel. Quad. Treble	⅞ / ¾	"			9·11·7½	
N ,,						Treble	⅞	"			9	
O ,,						"	"				"	
P ,,												
Q ,,												
R ,,												
S ,,												
T ,,												
U ,,												
V ,,												
W ,,												
THICKNESS OF SHEERSTREKE CLEAR OF LONG BRIDGE		Double	6¼	1⅛	4½	Quad Treble	1⅛	4½	21½	64·56	14	
DO. OF STRAKE BELOW		"	5¼	⅞	3½	"	⅞	3½			9	
DBLG. of Flat Plate Keel ,, Sheerstrakes (Length and thickness.)												
POOP SIDES		Double		¾	3"	Double	¾	2⅝				
SHORT BRIDGE SIDES		Double		¾	3"	Double	¾	2⅝				
FORECASTLE SIDES												

Write "Awning or Shelter Deck" "Sheer Strake" opposite its corresponding letter.

Awning or Shelter Deck Stringer Plate — **Butts,** Treble riveted for whole length amidship. **Straps,** ~~single, double or overlapped for~~ Quad at Bridge ends length amidship.

Upper Deck Stringer Plate — **Butts,** Double riveted for whole length amidship. **Straps,** single or overlapped for length amidship.

Butts of Side Stringers ✓ riveted.

Tie Plates ✓ riveted.

Inner Bottom Plating, riveting of **Edges** Double & Single **Butts** Trel. Double & Single

Centre Girder Butts, Treble riveted. **Keelson Butts,** ✓ riveted.

Frames, riveted through Plates with ⅞ in. Rivets, about 2 rows apart.

Rivets, state whether Iron or Steel Steel

FRAMES extend in one length from to State if ordinary or joggled

REVERSED FRAMES on floors and frames extend from Longitudinal Framing State if ordinary or joggled

MASTS, SPARS, &c.

	Material.	Total Length.	Diameter and Thickness. At Partners.	Heel.	Hounds.	Head.	No. of Plates in round.	Angles. Number.	Angles. Size.	Riveting. Seams.	Riveting. Butts.
Lower Masts. Fore	Steel	53·6"	30"	30"×·50	25"	25"×·42	2	✓	✓	⅞ Single	¾ ⅞ Treble
Main	"	54·6"	24"	24×·40	20"	20×·34	2	✓	✓	¾ "	¾ "
Mizen	✓										
Bowsprit											

Form No. 1B.

Topmasts, Yards and Remainder of **Spars** Top masts Pine

Rigging, Material and Size, **Shrouds** 3 each side 5" F.S. Wire Both Masts. **Stays** Fore Stay 5" F.S.W. Main Stay 4½ F.S. Wire Top mast Stays 2¼" F.S. Wire.

Sails. ✓ Suit of ✓ Sails, and the following spare sails ✓

TUE SEP

EQUIPMENT No. 38220·51. LETTER a+

ANCHORS.

Number of Certificate.	Anchors.	Weight, Ex. Stock Cwts.	qrs.	lbs.	Weight of Stock Cwts.	qrs.	lbs.	Test, per Certificate Tons.	cwts.	qrs.	lbs.	Weight Req. by Table 31. Cwts.	qrs.	lbs.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
500	1st Bower	68	1	24	stock 1886.			52	18	3	0	54	2	0	Hall's Type C.S. hand	Kobe Steel Works	Kobe, Aug 17th 1918. A.L. Jones
488	2nd ,,	68	0	8	"			52	12	2	0	51	0	0	" " " "	" " "	" " " "
506	3rd ,,	58	2	7	"			47	10	0	0	50			" " " "	" " "	" " " "
	Collective weight	195	0	11								155	2	0			
527	Stream	19	2	26	5	0	20	20	10	2	14	94	2	0	Rodgers Type. Jones Steel	" " "	" Oct 7th " " " "
504	Kedge	8	0	2	2	0	11	10	2	2	0				" " " "	" " "	" Aug 22nd " " " "

If Patent, state Name of Patentee. If Stock, state Manufacturer, Mechanical Tests.

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

1st Bower Drop Test 12'·0" 39·2·6 A.L.J. 500. 6·7·18.

2nd ,, " " " 38·3·15 " 488. 8·6·18.

3rd ,, " " " 33·1·6 " 506. 17·9·18.

CHAIN CABLES.

Number of Certificate.	Length and size supplied. Length. Fathoms.	Diam. Ins.	Test per Certificate. Statutory. Tons.	Breaking. Tons.	Weight of Chain Cable. Supplied. Cwts. qrs. lbs.	Per Rule. Cwts. qrs. lbs.	Length and Size per Table 31. Length. Fathoms.	Diam. Ins.	Description.	Makers of Cables.	Where and when tested, and Superintendent.
885	272½	2⅞	101½	142½	797·0·1	780·3·4	270	2⅞	Stud Link	Kobe Chain Works Ltd	Kobe 25th Aug 1917
Iron Stream Chain or Steel Wire	90	Cir. 5"		59			90	Cir. 5"			

HAWSERS AND WARPS.

Material	Length and Size supplied. Length. Fathoms.	Cir. Ins.	Breaking Test of Steel Wire Towline. Tons.	Length and Size per Table 31. Length. Fathoms.	Cir. Ins.
TOWLINE	120	3¼	65	120	3¼
HAWSERS & WARPS	2@90	2¼	15½		
"	2@90	2½	12½		
"	2@90	8" manilla		2@90	8"
"	2@90	7" "		2@90	7"

Boats 2 Lifeboats 28·3"·8·7"×3·10" 2 Cutters 18·0"×6·0"×2·6" **Steering Gear, Steam** Builders **Steering Gear, Hand** Builders

Pumps, Number One downton Diameter of Barrel 6½ State whether they are in efficient working order Yes

Windlass is Builders **Capstan** ✓

Engine Room Skylights.—How constructed? Plates and Angles What arrangements for deadlights in bad weather? Covers in Steel Frames

Coal Bunker Openings.—How constructed? Plates and Angles How are lids secured? Wood Covers Height above deck? 24"

Number of **Scuppers,** and numbers and dimensions of **Freeing Ports, &c.** In Wells 12·5×3" Bridge ends 6·2½ diam. Freeing Ports Lift Well 4·3·3×1·7" each side " " Tank " " " " " "

Ceiling in Holds, thickness and material 3" pine under Hatchways **Cargo Battens,** thickness and material 2" pine in Holds & Tween decks

Cargo Hatchways.—How formed? Plates and Angles **Hatches,** If strong and efficient? Yes.

State size **No. 1 Hatch** (Forward) 24'·0"×18'·0" **No. 2 Hatch** 36'·0"×18'·0" **No. 3 Hatch** 24"×18'·0" **No. 4 Hatch** 11'·0"×18'·0"

Number of **Web Plates, Shifting Beams** and **Fore** and **Afters** to each Hatch No. 1, 3 & 6 Hatches have 3 web plates " 5 " 36'·0"×18'·0" " 6 " 24'·0"×18'·0"

No. 2·5. 5 web plates & No. 4. 1 web plate.

Bulwarks, height above deck and description 4'·0" in Well. 3'·0" on Bridge deck Plate & Angles **No. of Breasthooks** 6 below Upper deck **No. of Crutches** deep floors. on ends of ends Long.th Main Rail and Stays, material and size Rail 6½×3½×·34 B.B. Stays 5×2½×·35 B.B.

The foregoing is a correct description.

Builder's Signature (here only) G. Yamada

Surveyor's Signature S. Jones Preston

Surveyor to Lloyd's Register of Shipping.

OSAKA IRON WORKS LTD. JUL 26 1920 大阪鐵工所

Correspondence.—State dates and initials of letters respecting this case (*Reference should be made in any correspondence connected with the case*)

Workmanship. Are the butts of plating planed or otherwise fitted? Planed.

Is the riveted work properly closed? Yes

Are the liners between the frames and plates solid single pieces? Long.l Framing. Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? Yes Do any rivets break into or through the seams or butts of the plating? No

Are the butts of Plating, Stringers, &c., properly shifted and strapped? Yes

Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)? Yes State results of tests Satisfactory

Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? Yes State results of tests Satisfactory.

General Remarks (State quality of workmanship, &c.)

This Vessel has been built under Special Survey in accordance with the Rules and approved Plans, and the Materials and Workmanship has been found Good. — Photo Prints of Midship Section, Profile, and Deck plans are forwarded under Seperate Cover. —

Sister Vessels.

"Eastern Light" Kobe Report No. 2402. "Eastern Knight" Kobe Report No. 2672.
"Yonei maru" " " " 2501. " " Mariner " " " 2703.
"Yoton " " " " " 2569. " " Sailor " " " 2839.
"Yoko " " " " " 2598. " " Admiral " " " 2768.

The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans to be forwarded with F.E. Report showing vessel as built.

The amount of Entry Fee ....Yen : 30.- Fees applied for, June 1st 1920

Special Survey Fee.... £ 3563.- Received by me,

Travelling Expenses, if any £ : 60.- June 1st 1920

State whether the Vessel has been built under Special Survey Yes

I am of opinion this Vessel should be Classed ✠ 100 A1. Shelter deck

With, or without Freeboard, as condition of Class with Freeboard.

Certificate to be sent to Kobe. *Date of issue* 5.10.20.

S. Jones Preston

Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. OCT. 5 1920

Character assigned ✠ 100 A1 Shelter deck with fbd. + L.M.C. 5.20

A+E.O.

F.D.

Rpt. 1*.

PARTICULARS OF LONGITUDINAL FRAMING.

FRAMING.	Amidships. In Ship.	Ends. In Ship.	Amidships. Per Rule or as approved.	Ends. Per Rule or as approved.	Riveting. Rivets in Longitudinl. Frames. Diam.	Spcng.	Spacing of Rivets on each side of Transverses and Bulkheads. Inches.	Rivets in Bracket Bulkheads. Number.	Diam. Ins.
	Ins. Ins. Ins.	Ins. Ins. Ins.	Ins. Ins. Ins.	Ins. Ins. Ins.	Ins.	Ins.			
Framing of ⅄, L or ⊏	7×3½×·36 BA	7×3½×·36 BA	7×3½×·36 BA	7×3½×·36 BA	7/8	5¼	5¼	7	7/8
Frames in Bridge 'tween Decks ...	7×3½×·40 BA	7×3½×·36 BA	7×3½×·40 BA	7×3½×·36 BA	"	"	"	"	"
Frames from Uppermost Continuous Deck	" " "	" " "	" " "	" " "	"	"	"	"	"
Framing from Awning, Shelter or Upper Deck to Margin Plate. No. 1		7×3½×·375 BA	" " "	" " "	"	"	"	"	"
" 2	8×3½×·40 BA	8×3½×·375 BA	8×3½×·40 BA	7½×3½×·40 BA	"	"	"	"	"
" 3	8×3½×·44 BA	8×3½×·40 BA	8×3½×·44 BA	8×3½×·40 BA	"	"	"	9	"
" 4	9×3½×·44 BA	9×3½×·40 BA	9×3½×·44 BA	9×3½×·40 BA	"	"	4⅜ for 10 RIVETS.	"	"
" 5	10×3½×·44 BA	9×3½×·48 BA	10×3½×·44 BA	9×3½×·48 BA	"	"	" " " "	"	"
" 6	10×3½×·48 BA	10×3½×·44 BA	10×3½×·48 BA	10×3½×·44 BA	"	"	" " " "	10	"
" 7	10×4·53×3·5×·531	10×·50×3·5×·50	10×4·53×3·5×·531	10×3½×·48 BA	"	"	3½ " " "	"	"
" 8	13×3·72×4×·61	10×·50×3·5×·50	10×·50×3·6×·531	10×·45×3·5×·531	"	"	" " " "	"	"
" 9	13×3·8×4×·61	13×3·8×4×·61	12×3·75×3·5×·623	12×3·75×3·5×·623	"	4⅜	" " " "	11	"
" 10								"	"
" 11									
" 12									
" 13									
" 14									
" 15									
" 16									
Spacing of Longitudinal Frames — Amidships	30"		30"						
Spacing of Longitudinal Frames — At Ends		30"		30"					
Double Bottoms ⅄, L or ⊏ — Tank Top Longitudinals	7×3½×·44	7×3½×·40	7×3"×·44	7"×3"×·40	¾	3¾	for 4 RIVETS EACH SIDE TRANS. & B^HDS 4½ ELSEWHERE		
Double Bottoms ⅄, L or ⊏ — Bottom "	8×3½×·40	7×3½×·44	8×3½×·40	7×3½×·44	⅞	3½	" " " " " " " 5¼ "		
Spacing of Longitudinals — Amidships	30"		30"						
Spacing of Longitudinals — At Ends...		30"		30"					
Transverses. In Bridge 'tween Decks — Depth and Thickness	15"×·38	15"×·38	15"×·38	15"×·38	Rivets in Lugs to Shell Diam. 7/8	Spcng.			
In Bridge 'tween Decks — Face Angles SINGLE.	5×3½×·44 L	5×3½×·44 L	5×3½×·44 L	5×3½×·44 L	"				
In Bridge 'tween Decks — Lugs to Shell* ...".....	3½×3½×·38 L	3½×3½×·38 L	3½×3½×·38 L	3½×3½×·38 L	"	4⅜			
In Awning, Shelter or Upper 'tween Decks. — Depth and Thickness	18"×·40	18"×·40	18"×·40	18×·40	"				
In Awning, Shelter or Upper 'tween Decks. — Face Angles SINGLE.	7×3½×·44 BA	7×3½×·44 BA	7×3½×·44 BA	7×3½×·44 BA	"				
In Awning, Shelter or Upper 'tween Decks. — Lugs to Shell* ...".....	3½×3½×·40 L	3½×3½×·40 L	3½×3½×·40 L	3½×3½×·40 L	"	4⅜			
In Hold. — Depth and Thickness	28"×·50	28"×·50	28"×·50	28"×·50	"				
In Hold. — Face Angles SINGLE.	9×3½×·66 BA	9×3½×·66 BA	9×3½×·66 BA	9×3½×·66 BA	"				
In Hold. — Lugs to Shell* ..⊕.....	6×6"×·50 L	6×6"×·50 L	6×6"×·46 L	6×6×·46 L	"	4⅜	⊕ DOUBLE FOR 4 SPACES ABOVE MARGIN AND HEIGHT OF UP. DK. IN FORE HOLD.		
In Hold. — Brackets							SINGLE ELSEWHERE.		
Spacing of Transverse Frames	12'-0"	as approved 10-9×7'-0	12'-0"	as approved 10-9×7'-0					
* State if joggled or liners.	JOGGLED	JOGGLED	JOGGLED	JOGGLED.					
Longitudinal Beams of ⅄, L or ⊏ — Bridge Deck ...	7×3½×·36 BA	7×3½×·36 BA	7×3×·34 BA	7×3"×·34 BA	Spacing. 3'·7"				
Longitudinal Beams of ⅄, L or ⊏ — Awg. or Shltr. Dk.	7×3½×·375 BA	7×3½×·375 BA	7×3×·36	7×3×·36	3'·7"				
Longitudinal Beams of ⅄, L or ⊏ — Upper "	8×3×·42 BA	8×3"×·40 BA	8×3×·42	8×3×·40	3'·7"				
Longitudinal Beams of ⅄, L or ⊏ — Second "									
Longitudinal Beams of ⅄, L or ⊏ — Third "									

Transverse Beams.	In Ships. Plate.	Angles.	As approved. Plate.	Angles.
	11"×·38	7×3½×·48	11"×·38	5×3½×·4
	11"×·38	7×3½×·52	11"×·38	7×3½×·44 L
	13"×·40	9×3½×·50	13"×·40	9×3½×·50 L
		ALL BULB	ANGLES	

The particulars of framing in peaks (if ordinary), Floors, Centre Girder, Side Girders and Margin Plate and their angle attachments, etc., to be entered in their respective places provided for on the Report Forms.

NOTE :—*This slip to be pasted on the fourth page of the Report, and reference to same to be made under framing, etc., on the first page.*

5c.4,19.—T.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 31·75 ft., R.Q.D. ✓ ft., Bridge 148·00 ft., Forecastle 45·25 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (*this information is to be given as it should appear in the Register Book*) One deck Steel and Shelter deck. – 2 tiers of Beams.

Official No. ; Signal Letters . State if Machinery is fitted aft no

How are the surfaces preserved from oxidation? Inside Cement and paint Outside paint

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors Cellular

Where Fitted.		*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	No 7	96·0	258·77
Double bottom, under Engines and Boilers,	" 6	39·0	185·52
Double bottom, if under Engines only, FEED WATER	" 5	✓	✓
Double bottom, if under Boilers only,	" 4	25·0	125·20
Double bottom, forward,	" 3	16·0	82·42
	" 2	42·0	214·36
	" 1	85·0	417·32
		45·0	158·17
	Total capacity of double bottom	368	1443·76

* The wells are not to be included in the lengths of the tanks.

Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Fore peak tank,	22·25	168·70
After peak tank,	10·00	48·09
Deep tank, aft,	34·00	1145·34
Deep tank, forward,		
Other tanks, if fitted,		
(If necessary, furnish further information by sketch.)		

State whether the above have been tested as required by the Rules Yes.

Order for Special Survey No.

Date

No. 944 in builder's yard.

DATES of Surveys held while building: Dec. 1919. - 3.5.8.11.12.16.20.23.26." Jan 1920. 3.9.14.19.24.26.29." Feb. 3.10.12.14.24." Mar. 5.11.19.22.25.29." April 6.8.9.24.28.30." May. 7.11.19.26.27.

Total No. of Visits 38.

Surveyor's Signature S. Sunset Nelson

Topmasts, **Rigging,** Material and Size, **Shrouds** ✓

Sails. ✓ Suit of ✓ Sails, ...