(77393)

~~Awning or~~ Shelter Deck, ~~or Pt. Awning Deck.~~

STEEL STEAMER.

No. 1296.

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

FRI. AUG. 20 1920

Port of: Nagasaki — Date of completion of Report: 10th July '20 — Received at London Office

Survey held at: Nagasaki — Date, First Survey: 8th Jany — Last Survey: 17th June 1920.

On the (State if Single, Twin, or Triple Screw): Twin Screw Steamer "ARIZONA MARU" — Rig: Schooner.

CLASS + 100 A.1 Shelter Dk with freeboard.

TONNAGE under Tonnage Deck	6867.39
Do. between Tonnage Dk. and 3rd, 4th, or Awning Dk.	1929.12
Total under ~~Upper~~ SHELTER Dk.	8796.51
Do. of Poop	131.13
Do. of R. Qr. Dk.	
Do. of Bridge House	123.45
Do. of Forecastle	238.64
Do. of Houses on Deck	317.50
Do. of excess of Hatchways	10.30
Do. above Crown of Engine Room	78.15
Gross Tonnage	9,605.77
Less Crew Space	401.18
Less above Crown of Engine Room	78.15
TONNAGE FOR FEES	9216.44
Less Engine Room	3,102.65
Less Navigation Spaces	109.60
Less Peak tank	44.26
Register Tonnage as cut on Beam	6,068.68

	Feet.
Breadth (greatest moulded)	61.0
Depth, at middle of length from top of keel to top of beams at side of uppermost Continuous Deck	40.75
Deduct height of 'tween deck when this does not exceed 8ft.	8.0
Transverse Number	93.75
Length on deck from fore part of stem to after part of sternpost	475.0
Longitudinal Number	44,531.25
Depth "d" at middle of length. See Secs. 2 & 13	17.73
Proportions, Depths to Length, Uppermost Continuous Deck at side to top of keel	11.65
" " " Upper Deck at side to top of keel	14.50

Master: T. Tachigami

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

Built at: Nagasaki

When built: 1920 Launched: 22nd May '20

By whom built: Mitsubishi Zosen Kaisha.

Owners: Osaka Shosen Kaisha

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

Residence: Osaka

Port belonging to: Osaka.

Destined Voyage: Seattle U.S.A. If Surveyed while Building, Afloat, or in Dry Dock: while building

LENGTH on Deck as per Rule	Ft.	Ins.	BREADTH — Moulded	Ft.	Ins.	DEPTH, ACTUAL — Top of Floors to top of ~~Awn. or~~ Shelter Dk. Beams	Ft.	In.	No. of Decks with flat laid	3
	475	0		61	0	Do. do. Upper Deck Beams	38 / 30	1¼ / 1¼	No. of Tiers of Beams	3

Dimensions of Ship per Register, Length 475 breadth 60 depth. 40.75 ~~Awn. or~~ Shelter Dk. Moulded depth, ft. 40 ins. 9 To Awning or Shelter Dk. 32.75 Upper Deck. Moulded depth, ft. 32 ins. 9 To Upper Dk. Round up of Uppermost Dk. Beam, Actual 15¼ ins.

FRAMING.

	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as	Inches per Rule Appro	Inches per Rule Approved.
FRAME, ~~Angles, or~~ [~~or L~~ Bars, amidships	12	3.77×3.77×.47		12×3.75×3.75×.47		
Do. in peaks B.A.	8	3½	.48	8	3½	.48
Do. in way of Double Bottoms at Solid Floors	3½	3½	.46	3½	3½	.46
" " at intermdt. Bkts.	B.A.9	3½	.44	9	3½	.44
Spacing of Frames from centre to centre amidships		36			36	
" " " " from 3/5 length to collision bulkhead		27			27	
" of Frames from centre to centre in peaks		24			24	
REVERSED FRAME, Angles	3½	3½	.46	3½	3½	.46
Do. in way of Double bottoms at Solid Floors	Flanged			Flanged		
" " at intermdt. Bkts.	B.A.8	3½	.45	8	3½	.45
FRAMING, depth of girder		12			12	
FLOORS, depth and thickness of Floor Plate at mid-line for ¾ length amidships	✓					
" in way of Engine and Boiler spaces	E. .44	B .54		E. .44	B .54	
" thickness at the ends of vessel		.40			.40	
" depth at ¾ the half-bdth. as per Rule	✓					
" height extended at the Bilges	✓					
FLOORS, in **Cell Double Bottoms**			.44			.44
" state if flanged (top and bottom)		Top			Top	
" spacing of Solid		42			42	
CENTRE GIRDER, in Dbl.bottom.,dpth.&thicknss		47	.58		47	.58
" " Angles, Top S.	6	6	.62	5	5	.62
" " " Bottom D.	6	6	.62	5	5	.62
" " " to Floors	6	6	.52	6	6	.52
" Brackets at intermdt. frmg., wdth & thknss		42	.48		42	.48
SIDE GIRDERS, number and thickness	2		.46	2		.46
" " state if flanged (top & bottom)		Top			Top	
" Angles ... at bottom	3½	3½	.46	3½	3½	.46
MARGIN PLATE, depth (exclusive of flange) and thickness		38	.56		38	.56
" Angles to outside plating	4	4	.56	4	4	.56
" " to floors	3½	3½	.46	3½	3½	.46
" Brackets at intermdt. frmg., wdth & thknss		48	.48		48	.48
" Height of Brackets above at bilge		57½			57½	
INNER BOTTOM PLATING, breadth and thickness of **Middle Line Strake**		47	.54		47	.54
" " thickness in Engine and Boiler space	E. .56	B .58		E. .56	B .58	
" " " Remainder in Holds			.48			.48
BEAMS, ~~Awng. or~~ **Shltr Dk,** ~~Single Angle,~~ Bulb Angle, ~~Plate, Tee Bulb or Channel~~ AT CASINGS	9 / 9	3½ / 3½	13/32 / .50	9 / 9	3½ / 3½	13/32 / .50
" Spacing		36			36	
BEAMS, Upper Deck, ~~Single Angle,~~ Bulb Angle, ~~Plate, Tee Bulb or Channel~~	9 / 10	3½ / 3½	13/32 / 7/16	9 / 10	3½ / 3½	13/32 / 7/16
" Spacing		36			36	
BEAMS, Second, ~~Third & Fourth Decks,~~ ~~Single Angle,~~ Bulb Angle, ~~Plate, Tee Bulb or Channel~~	10	3½	.50	10	3½	.50
" Angles on upper edge	✓					
" Spacing		36			36	
BEAMS, Poop Deck, ~~Angle,~~ Bulb Angle, ~~Plate, Tee Bulb or Channel~~	10	3½	7/16	10	3½	7/16
" Angles on upper edge	✓					
" Spacing		48 - 36			48 - 36	
BEAMS, Bridge Deck, ~~Angle,~~ Bulb Angle, ~~Plate, Tee Bulb or Channel~~	6	3	5/16	6	3	5/16
" Angles on upper edge	✓					
" Spacing		48			48	
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel	10	3½	7/16	10	3½	7/16
" Angles on upper edge	✓					
" Spacing		54 - 48			54 - 48	

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	wide	spaced	see	plan
" " **Hold** " "	"	"	"	"
" **Quarter, 'tween Dks.,** " "	✓			
" " **in Hold** " "	✓			

KEELSONS AND STRINGERS.

	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as	Inches per Rule Appro	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 1 PANTING	4	3½	.54	4	3½	.54
" " Angle		24	.42		24	.42
" " Intercostal Plate, for W. lng.	5	5	.45	5	5	.45
" Attached to outside plating with Angle						
~~Awning or~~ **Shelter Deck Stringer Plates,** breadth and thickness		65	.62		65	.62
" Angle on ditto		5×5	.66		5×5	.66
" Tie Plates, fore and aft, outside Hatchways	✓					
" Deck.* ~~Iron or~~ Steel, for W lng.			.50			.50
" Wood Deck. Material & thickness O.P.		3"			3"	
Upper Deck Stringer Plate, breadth and thickness		68	.48-.52		68	.48-.52
" Angles on ditto, No. 2		4×4	.50		4×4	.50
" Tie Plates, outside Hatchways						
" Deck.* ~~Iron or~~ Steel, for W lng.			.40			.40
" Wood Deck. Material & thickness	✓					
Second Deck Stringer Plates, br'dth & thickn's		68	.40		68	.40
" Angles on ditto, No. 2		4×4	.50		4×4	.50
" Tie Plates, outside Hatchways	✓					
" Deck.* Material and thickness Steel. W.			.32			.32
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		38	.38		38	.38
" Angles on ditto		3½×3½	.38		3½×3½	.38
" Tie Plates		10	.38		10	.38
" Deck. Material and thickness O.P.			3"			3"
Bridge Deck Stringer Plate, br'dth & thickness	✓					
" Angle on ditto	✓					
" Tie Plates	✓					
" Deck. Material and thickness	✓					
Forecastle Deck Stringer Plate, b'dth & th'kns		38	.38		38	.38
" Angle on ditto		3½×3½	.38		3½×3½	.38
" Tie Plates	✓					
" Deck. Material and thickness Stl. W.S. OP		2½	.30		2½	.30-.36

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

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	3-3 Spaces		3-3 spaces	
" " " brdth. & thickness	24 × ·50		24 × ·50	
" No of Side Stringers " " 1	24 × ·42		24 × ·42	
WEB-FRAMES, In E. & B. Space, No. & spacing	5-5 Spaces		5-5 spaces	
" " " brdth. & thickness	30 · 50		30 · 50	
WEB-FRAMES, In After Body, No. and spacing	3-3 spaces		3-3 spaces	
" " " brdth. & thickness	24 · 44		24 · 44	
" No. of Side Stringers " " 1	24 · 42		24 · 42	
" Size of Face Angles to **Web-Frames**	9 × 3½ × ·54		9 × 3½ × ·54	
BRACKET PLATES to Stringers between Web Frames, depth and thickness	18 · 42		18 · 42	

FORGINGS or CASTINGS.

	Inches in Ship.	Inches per Rule. Or as Approved.
KEEL, Bar, depth and thickness		
STEM, moulding and thickness ... Steel	11 × 3	11 × 3
STERN-POST for Rudder do. do. ... C. S.	11⅜ × 3⅜	11⅜ × 3⅜
" for Propeller ... C.S. Brackets		
RUDDER $A \times D^2$ Table 22. Speed 14 knots 172·7 × 3·69	637·263	637·263
Main-Piece, diameter at head	11½	11½
" " " at heel	8½	8½

RUDDER, how constructed Single Plate System Vertical Coupling.

" Thickness of ~~Plates or~~ Single Plate 1·12"

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.? Cambria Co: McDowle Steel & Ordnance Co: open hearth steel.

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

BULKHEADS.

	Number. Vessel.	Number. Per Rule.	Thickness.	Stiffeners. Horizontal. Size.	Horizontal. Spacing	Vertical. Size.	Vertical. Spacing	Single or ~~Double Plates~~	Height up, state deck.
	FR. No		Inches.	Inches.	Inches.	Inches.	Inches.		
W.T. BULKHEADS	9		·52 - ·34			[10×3·35×·38	24	6×6×·52	SH. DK
	30		·52 - ·34			[12×4×6×·70	26-30	"	" "
	49		" " 3RD DK			[8×3½×⅜	20-30	"	" "
						[9×3½×⅜	24-28		
	65		" " " "			DITTO	24-30	" "	" "
	95		" "			[12×3·77×·77×½	24-30	" "	" "
~~" COLLISION "~~	113		·54 - ·34			[24		"	" "
~~PARTITION~~ COLLISION BHD.	136		·54 - ·34 3RD DK			[8×3½×⅜	24-30	5×5×·54	" "
~~LONGITUDINAL~~	161		·58 - ·32 & 3RD DK BEAM	7'-6"		[10×3½×·32×·46	24	6×6×·54	" "

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

Are the ~~Slaize Valves and~~ Watertight Doors in efficient working order? Yes.

PLATING.

STRAKES.	As in Ship. Amidship. Breadth.	Amidship. Thickness.	Forward. Thickness.	Aft. Thickness.	Per Rule or as Approved. Amidship. Breadth.	Amidship. Thickness.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Flat Plate Keel (If Bar Keel, state thickness)	50	1·16	·80	·80	50	1·16
Garboard or A Strake	64	·80	·72	·62	64	·80
B "	66	"	"	·70	66	"
C "	64	"	"	·80	64	"
D "	66	"	·70	·76	66	"
E "	62	"	·52	·72	62	"
F "	66	"	·52	"	66	"
G "	66	·78	·48	·68	66	·78
H "	68	"	·48	"	68	"
J "	66	"	·48	"	66	"
K " 2ND DK	65	"	·48	·68	65	"
L "	69	"	·52	·48	69	"
M "	60	"	·50	"	60	"
UP. DK N "	51	"	·48	"	51	"
O "	50	·86	·48	·48	50	·86
SH. DK P "						
Q "						
R "						
S "						
T "						
U "						
V "						
W "						
Th'kness of Sh'strke clear of Long Bridge						
Do. of Strake below						
Dblg. of Flat Plate Keel						
" Sheerstrakes (Length and thickness)						
Poop Sides	40				40	
Short Bridge Sides	34				34	
Forecastle Sides	44				44	

Write "Awning or Shelter Deck," "Shear Strake" opposite the corresponding letter.

RIVETING.

	Edges. Single or Double.	Edges. Breadth of Lap.	Rivets. Diam.	Rivets. Spacing cr. to cr.	Butts. Double or Treble and for what Length.	Butts. Rivets. Diam.	Butts. Rivets. Spacing cr. to cr.	Butts. Straps. Breadth.	Butts. Straps. Thickness.	If Lapped. Breadth.	If Lapped. For what Length.
	Ordinary or Jogged? ordinary	Inches.	Inches.	Inches.		Inches.	Inches.	Inches.	Inches.	Inches.	Feet.
Flat Plate Keel	D	7½	1¼	4½	5 Riv. ¾	1¼	4½	—	—	22½	W.
Garboard or A Strake	"	6	1	3½	2nd.	1	4			14	"
B "	"	"	"	"	"	"	"			"	"
C "	"	"	"	"	"	"	"			"	"
D "	"	"	"	"	"	"	"			"	"
E "	"	"	"	"	"	"	"			"	"
F "	"	"	"	"	"	"	"			"	"
G "	D+J	6-8½	"	"	"	"	"			"	"
H "	"	"	"	"	"	"	"			"	"
J "	"	"	"	"	"	"	"			"	"
K " 2ND DK	D	6	"	"	"	"	"			"	"
L "	"	"	"	"	"	"	"			"	"
M "	"	"	"	"	"	"	"			"	"
UP. DK N "	"	"	6¼	4½	"	"	"			"	"
O "	"	"	"	"	5 Riv. ¾	"	"			17½	"
SH. DK P "											
Q "											
R "											
S "											
T "											
U "											
V "											
W "											
Th'kness of Sh'strke clear of Long Bridge	P strake in way of bridge house 1·06.										
Do. of Strake below											
Dblg. of Flat Plate Keel											
" Sheerstrakes (Length and thickness)											
Poop Sides	Single	2½	¾	3	Double	¾	2⅝	✓	✓	5	W.
Short Bridge Sides	"	"	"	"	Single	¾	2⅝	✓	✓	3	W
Forecastle Sides	Single	2½	¾	3	Double	¾	2⅝	✓	✓	5	W

~~Awning or~~ **Shelter Deck Stringer Plate** { **Butts,** 2D. riveted for ½L length amidship. **Straps,** ~~single, double or~~ overlapped for W. length amidship.

Upper Deck Stringer Plate { **Butts,** Jeb. riveted for W length amidship. **Straps,** ~~single or~~ overlapped for W length amidship.

Butts of Side Stringers J. riveted.

Tie Plates D. riveted.

Inner Bottom Plating, riveting of **Edges** D. & S. **Butts** J. D. S.

Centre Girder Butts, J. riveted. **Keelson Butts,** J. riveted.

Frames, riveted through Plates with 1 in. Rivets, about 5 apart.

Rivets, state whether Iron or Steel Steel.

FRAMES extend in one length from bilge to Shelter Dk and as per plan. State if ordinary or joggled joggled

REVERSED FRAMES on floors and frames extend from Flanged floors & Channel frames. 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	93'-6	30 × ·50	30 × ·50	25 × ·50	19 × ·50	2	3	7 × 3½ × ½	Single	Incl. & Bob.
Main	"	96'-9"	26 × ·50	26 × ·50	21½ × ·50	16¾ × ·50	2	—	—	"	"
Mizen	✓										
Bowsprit	✓										

Topmasts, Yards and Remainder of **Spars** of wood.

Rigging, Material and Size, **Shrouds** Steel Wire F. 3-5¾" M. 2-4½" **Stays** F. Forestay 1-3" Preventers 2-5¾" M. Mainstay 1-3" Preventer 1-4½"

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

Form No. 1B.

EQUIPMENT No. 48.712.45 LETTER d f.

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.
609	1st Bower	90	1	12	Stockless			63	5	0	0	81	1	0	Hall's C. S. Head	Kobe Steel Works	Kobe 30/12/18 A. L. Jones
620	2nd "	"	"	"		"		"	"	"	"	81	1	0	"	"	" "
76803	3rd "	81	2	9		"		59	10	0	0	69	2	0	"	N. Hingley	Netherton 27/11/16 H. Green
	Collective weight	262	1	5								232	0	0			
58	Stream	26	2	4	6	3	26	26	1	3	14	28	2	0	Ordinary Anchor	Steel Works	Yoke 12/9/18 J. J. Cairns
82	Kedge	11	3	24	3	0	1	13	14	2	0	11	0	0	" "	"	" 23/10/18 "

If Patent State Name of Patentee. *If Stockless state Mechanical Tests.*

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

1st Bower	51 . 2 . 22	A. L. J.	609	5. 12. 18.
2nd "	51 . 2 . 12	"	620	25. 11. 18.
3rd "	44 0 7	W. B.	803	20-24/10/18.

CHAIN CABLES.

Number of Certificate.	Length and size supplied. Length. Diam.	Test per Certificate. Statutory. Breaks.	Weight of Cable. Supplied.	Per Rule.	Length and size per Table 31. Length. Diam.	Description.	Makers of Cables.	Where and when tested, and Superintendent.
	Fathoms. Ins.	Tons. Tons.	Cwts. qrs. lbs.	Cwts. qrs. lbs.	Fathoms. Ins.			
490	104 ¾ 2½	112 7/10 157 7/10	671. 0. 8	940. 0. 0	300 2¼	S. L.	Onoke Chain W.	Osaka 25/11/19. J. Jo.
961	60 ½ 2½	112 7/10 157 7/10	221. 0. 23	✓	✓	" "	"	" 23/12/19. "
61323 B	45 2½	112 7/10 157 7/10	139. 1. 7			" "	N. Hingley	Netherton 27/11/16. H. Green.
Iron Stream Chain or Steel Wire	720 4¾		65-5 Cwt 2-10		120 4¾		Special Flexible	Yokohama Rope Works 15/1/19.

HAWSERS AND WARPS.

Material	Length and Size supplied. Length.	Fathoms.	Ins.	Breaking Test of Steel Wire Towline. Tons.	Length and Size per Table 31. Length.	Fathoms.	Cir.
Towline	7 L.W.	180	5¾	97·04	180		5¾
Hawsers & Warps	"	120	4¾	51·40	2-100		8
	"	120	3½	28·54	2-100		8
	"	Manila	2-100	8			
			2-100	8			

Boats 12 Lifeboats, 1 Cutter, 7 1 Sampan

Pumps, Number Hydraulic, 5¾" 1 fire Pump 3½" Air pump 7½" Bilge 6½" 1 aft peak 3½" Blake, Chapman & Co.

Steering Gear, Steam Caldwell's **Steering Gear, Hand** Screw.

Diameter of Barrel 5½ × 3½ State whether they are in efficient working order Yes.

Windlass is

Capstan None

Engine Room Skylights.—How constructed? Steel & balls' eyes What arrangements for deadlights in bad weather? None

Coal Bunker Openings.—How constructed? Steel coamings How are lids secured? Iron Bands Height above deck? 26"

Number of **Scuppers,** and numbers and dimensions of **Freeing Ports, &c.** Haft. 3 fot' each side, Aft:- 4-3'-10"×1'-8" each side 2-2'-6"×1'-6", Fore 4-3'-4"×1'-8"

Ceiling in Holds, thickness and material 2½" pine **Cargo Battens,** thickness and material 2" pine

Cargo Hatchways.—How formed? Steel coamings & solid covers. **Hatches,** If strong and efficient? Yes.

State size **No. 1 Hatch** (Forward) 20'-3" × 18' **No. 2 Hatch** 33' × 20' **No. 3 Hatch** 18' × 20' **No. 4 Hatch** 15' × 18'

Number of **Web Plates,** ~~Shifting Beams and Fore and Aftermost~~ to each Hatch No. 1 = 4, No. 2 = 6, No. 3 = 3, No. 4 = 2, No. 5 = 6, No. 6 = 3 No. 5 Hatch 33' × 20' No. 6 Hatch 18 × 16.

No. of Breasthooks 5 **No. of Crutches** ✓

Bulwarks, height above deck and description 3'-9" above dk, Steel stays 6'-3" × ⅜ B.A. Main Rail and Stays, material and size Steel. B.A. 6'-3" × ⅜"

The foregoing is a correct description. NAGASAKI WORKS, MITSUBISHI ZOSEN KAISHA, LTD. *Builder's Signature (here only)* GENERAL MANAGER. *Surveyor's Signature* R. Crawford. *Surveyor to Lloyd's Register of Shipping.*

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

1919. Aug 9. Aug 30. Dec: 19.

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? joggled frames. 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.) The workmanship and materials are good.

This vessel has been built in accordance with the approved plans and in conformity with the Rules for the class contemplated.

Plans sent under separate cover of Section, Profile, Table of Pillars, Shell Expansion, W. T. Bulkheads, Forgings, also two certificates of Forgings & Castings.

The fore peak tank and No. 6 ballast tank are to be used for carrying Crude oil and were tested to a head equal to a pipe 13 feet above deck.

Sister vessel of "Arabia Maru". Report No. 1180.

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 50.00 Fees applied for, 28th June 1920

Special Survey Fee £ " 1469.50/100 Received by me, 5th July 1920 R.C.

Travelling Expenses, if any £ ✓ :

Certificate to be sent to Nagasaki *Date of issue* Cert can be adversed 7240

State whether the Vessel has been built under Special Survey Yes

I am of opinion this Vessel should be Classed +100 A 1 Shelter Dk with Freeboard

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

R. Crawford. *Surveyor to Lloyd's Register of Shipping.*

The Surveyors are requested not to write on or below the Committee's Minute.

Committee's Minute FRI. AUG. 27 1920

Character assigned 100 A 1 Shelter dk with fbd. + L.M.B. 6.20 F.D.

A & B.P.

0039 1/2

GENERAL REMARKS—(*continued*).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 34·79 ft., R.Q.D. ✓ ft., Bridge 30·0 ft., Forecastle 86·2
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated No.

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 a*
should appear in the Register Book) 2 Dks (Stl) & Shelter Dk (Stl & W.S.) 3rd Dk (Stl) in No 1 Hold.

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

How are the surfaces preserved from oxidation? Inside Paint & Cement, Tank top in Boiler Room & Bunkers Bitumastic 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.	Water Capacity.	Where Fitted.	*Length.	Water Capa
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	145	551·70	Fore peak tank,	24	137
Double bottom, under Engines and Boilers,	84	446·70	After peak tank,	18	50
Double bottom, if under Engines only,	—		Deep tank, aft,	48	518
Double bottom, if under Boilers only,	—		Deep tank, forward,		
Double bottom, forward,	175·5	664·82	Other tanks, if fitted, Fresh Water Hold aft	11·0 6·0	40 50
	Total capacity of double bottom 464·5	1663·22	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks. State whether the above have been tested as required by the Rules Yes

No 6 and Fore Peak bulkhead & pumps fitted. No 6 = 48 ft long = 258 tons included in above.

Order for Special Survey No. 46

Date 20th March '14

No. 280 in builder's yard.

Dates of Surveys held while building: 1920. Jany. 8. Feby. 19. 21. 25. 26. 28. Mar. 9. 12. 19. 30. Apr. 1. 5. 8. 19. 23. 2
28. 29. 30. May. 1. 3. 4. 8. 11. 13. 15. 18. 21. 22. 27. June. 4. 5. 7. 10.
17.

Total No. of Visits 3

Surveyor's Signature R. Crawford.