

# Awning or Shelter Deck, or Pt. Awning Deck.

# STEEL STEAMER.

No. 4187

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

Port of *Kobe* Date of completion of Report *27<sup>th</sup> Dec. 1923* Received at London Office *MON. 28 JAN. 1924*  
Survey held at *Imoskima* Date, First Survey *March 11<sup>th</sup> 1921* Last Survey *December 18<sup>th</sup> 1923*  
On the (State if Single, Twin, or Triple Screw) *Single Screw Steamer "KWAYO MARU"* Rig *Two masts.*

TONNAGE under  
Tonnage Deck... *3676.64*  
Do. between Tonnage Dk. and  
3rd, 4th, or Awning Dk.  
Total under Upper Dk. *53.57*  
Do. of Poop *53.57*  
Do. of R. Qr. Dk. *313.75*  
Do. of Bridge House *62.31*  
Do. of Forecastle *124.32*  
Do. of Houses on Deck *44.43*  
Do. of excess of Hatchways *88.53*  
Do. above Crown of  
Engine Room...  
Gross Tonnage *4363.75*  
Less Crew Space *124.44*  
Less above Crown of  
Engine Room...  
TONNAGE FOR FEES...  
Less Engine Room *1396.40*  
Less Navigation Spaces *80.73*

CLASS *\*100 A1*  
Breadth (greatest moulded) *49.83*  
Depth, at middle of length from top of keel to top of  
beams at side of uppermost Continuous Deck... *28.17*  
Deduct height of 'tween deck when this does not exceed 8ft. *8.00*  
Transverse Number *70.00*  
Length on deck from fore part of stem to after part of  
sternpost... *345.00*  
Longitudinal Number *24150*  
Depth "d" at middle of length. See Secs. 2 & 13... *12.25*  
Proportions, Depths to Length, Uppermost Continuous  
Deck at side to top of keel... *17.10*  
" " " Upper Deck at side  
to top of keel...  
Destined Voyage

Master *Riozo Ito*  
Year of Appointment (1) As Master in service of  
owner of present vessel: 1923  
(2) As Master of this  
vessel: 1923  
Built at *Huku dockyard Imoskima*  
When built *1923* Launched *Sept. 25<sup>th</sup> 1923*  
By whom built *Osaka Iron Works*  
Owners *Osaka Iron Works, Ltd*  
Managers  
(Where necessary to be entered in Reg. Book.)  
Residence  
Port belonging to *Nakamoshu, Hiroshima Ken*

Register Tonnage *2762.18*  
as cut on Beam...

If Surveyed while Building, Afloat, or in Dry Dock *Building*

LENGTH on	Ft.	Ins.	BREADTH	Ft.	Ins.	DEPTH, ACTUAL	Ft.	Ins.	No. of Decks with flat laid
Deck as per Rule	<i>345</i>	<i>0</i>	Moulded	<i>49</i>	<i>10</i>	Top of Floors to top of Awn. or Shelter Dk. Beams	<i>25</i>	<i>9 1/2</i>	<i>2</i>
						Do. do. Upper Deck Beams	<i>16</i>	<i>9 1/2</i>	<i>2</i>
Dimensions of Ship per Register,									
Length	<i>345.0</i>		breadth	<i>49.83</i>		Awn. or Shelter Dk.	Moulded depth, ft. <i>28</i>	ins. <i>2</i>	To Awning or Shelter Dk. Round up of Uppermost Dk. Beam, Actual... <i>12</i> ins.
			depth	<i>19.17</i>		Upper Deck.	Moulded depth, ft. <i>19</i>	ins. <i>2</i>	To Upper Dk.

FRAMING.						PILLARS.					
Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Approved.	Inches in Ship.	Inches per Rule Or as Approved.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Approved.	Inches in Ship.	Inches per Rule Or as Approved.
E, Angles, or $\square$ or $\angle$ Bars, amidships...						PILLARS, In 'tween Deck, size and spacing					
in peaks...						" " Hold					
in way of Double Bottoms at Solid Floors...						" Quarter, 'tween Dks., "					
" " at intermdt. Bkts.						" in Hold					
g of Frames from centre to centre amidships						KEELSONS AND STRINGERS.					
length to collision bulkhead " from $\frac{3}{4}$						CENTRE LINE KEELSON, Vertical Plate above					
of Frames from centre to centre in peaks..						floors, Through Plate, or Intercoastal Plate					
RSED FRAME, Angles.....						" Rider Plate					
in way of Double bottoms at Solid Floors...						" Flat Keel Plate Angles					
" " at intermdt. Bkts.						" Horizontal Plates on Floors					
ING, depth of girder						" Angles or Bulb Angles.....					
IS, depth and thickness of Floor Plate						SIDE KEELSONS, Number.....					
at mid-line for $\frac{3}{4}$ length amidships...						" Angles or Bulb Angles					
in way of Engine and Boiler spaces.....						" Plate above floors, for length					
thickness at the ends of vessel.....						" Intercoastal Plate, for length					
depth at $\frac{3}{4}$ the half-bdth. as per Rule...						" Attached to outside plating with Angle...					
height extended at the Bilges.....						BILGE KEELSON, Angles.....					
IS, in Cell Double Bottoms						" Intercoastal Plate, for length					
state if flanged (top and bottom).....						" Attached to outside plating with Angle...					
spacing of Solid. <i>5.53 x 6.14</i>						SIDE STRINGERS, Number.....					
E GIRDER, in Dbl. bottom, dpth. & thknss						" Angle.....					
" Angles, Top <i>Single</i>						" Intercoastal Plate, for lng.					
" Bottom <i>Double</i>						" Attached to outside plating with Angle...					
" to Floors <i>Single</i>						Awning or Shelter Deck Stringer Plates,					
Brackets at intermdt. frmg., wdth & thknss						breadth and thickness					
GIRDERS, number and thickness. <i>One 36-34</i>						" Angle on ditto					
" state if flanged (top & bottom)						" Tie Plates, fore and aft, outside Hatchways					
Angles						" Deck. * <i>Iron</i> Steel, for <i>Weld</i> lng.					
N PLATE, depth (exclusive of flange)						" Wood Deck. Material & thickness					
and thickness						Upper Deck Stringer Plate, breadth and					
Angles to outside plating						thickness.....					
" to floors						" Angles on ditto, No. <i>one</i>					
Brackets at intermdt. frmg., wdth & thknss						" Tie Plates, outside Hatchways					
Height of Brackets above at bilge						" Deck. * <i>Iron</i> Steel, for lng.					
BOTTOM PLATING, breadth and						" Wood Deck. Material & thickness					
thickness of Middle Line Strake						Second Deck Stringer Plates, br'dth & thkn's					
" thickness in Engine and Boiler space						" Angles on ditto, No.					
" Remainder in Holds						" Tie Plates, outside Hatchways					
Awng or Shltr Dk, Single Angle,						" Deck. * Material and thickness					
Bulb Angle, Plate, Tee Bulb or Channel						Third, Fourth & Fifth Deck Stringer Plate,					
acing						breadth and thickness					
Upper Deck, Single Angle, Bulb Angle,						" Angles on ditto, No.					
Plate, Tee Bulb or Channel.....						" Tie Plates, outside Hatchways					
acing						" Deck. Material and thickness					
Second, Third & Fourth Deck, Single						Poop Deck Stringer Plate, breadth & thickness					
gle, Bulb Angle, Plate, Tee Bulb or Channel						" Angles on ditto.....					
gles on upper edge						" Tie Plates					
acing						" Deck. Material and thickness <i>Steel</i>					
Poop Deck, Angle, Bulb Angle, Plate,						Bridge Deck Stringer Plate, br'dth & thickness					
Tee Bulb or Channel						" Angle on ditto					
Angles on upper edge						" Tie Plates					
Spacing						" Deck. Material and thickness <i>Steel</i>					
Bridge Deck, Angle, Bulb Angle, Plate,						Forecastle Deck Stringer Plate, br'dth & th'kns					
Tee Bulb or Channel						" Angle on ditto					
Angles on upper edge						" Tie Plates					
Spacing						" Deck. Material and thickness <i>Steel</i>					
Forecastle Deck, Angle, Bulb Angle,						" Angles on ditto					
Plate, Tee Bulb or Channel						" Tie Plates					
gles on upper edge						" Deck. Material and thickness <i>Steel</i>					
acing						" Angles on ditto					

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



WEB FRAMES.				FORGINGS or CASTINGS.			
Inches in Ship.				Inches in Ship.			
Inches per Rule.				Inches per Rule.			
WEB-FRAMES, In Fore Body, No. and spacing				KEEL, Bar, depth and thickness			
No. of Side Stringers				STEM, moulding and thickness			
WEB-FRAMES, In E. & B. Space, No. and spacing				STERN-POST for Rudder do. do.			
No. of Side Stringers				for Propeller			
WEB-FRAMES, In After Body, No. and spacing				RUDDER-A x D Table 22. Speed			
No. of Side Stringers				Main-Piece, diameter at head			
Size of Face Angles to Web-Frames				at heel			
BRACKET PLATES to Stringers between				RUDDER, how constructed			
Web Frames, depth and thickness				Thickness of Single Plate			
Can the Rudder be unshipped afloat?				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			
Plating, &c.?				Plating, &c.?			
Has the Steel been tested as required by the Rules?				Has the Steel been tested as required by the Rules?			

  

BULKHEADS.				STIFFENERS.			
Number.				Single or Double.			
Thickness.				Height up, state deck.			
W.T. BULKHEADS				Can the Rudder be unshipped afloat?			
COLLISION				PARTITION			
LONGITUDINAL				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			

  

PLATING.				RIVETING.			
AS IN SHIP.				EDGES.			
PER RULE OR AS APPROVED.				BUTTS.			
STRAKES.				Double or Triple and for what Length.			
FLAT PLATE KEEL				RIVETS.			
GARBOARD OF A STRAKE				STRAIPS.			
State actual thickness in every of Double Bottom.				IF LAPPED.			
B				Double			
C				Single			
D				Double			
E				Single			
F				Double			
G				Single			
H				Double			
I				Single			
J				Double			
K				Single			
L				Double			
M				Single			
N				Double			
O				Single			
P				Double			
Q				Single			
R				Double			
S				Single			
T				Double			
U				Single			
V				Double			
W				Single			
THICKNESS OF STRAKE				DOUBLE			
CLEAR OF LONG BRIDGE				SINGLE			
DO. OF STRAKE BELOW				DOUBLE			
DELG. of Flat Plate Keel				SINGLE			
Sheerstrakes				DOUBLE			
Length and thickness				SINGLE			
POOP SIDES				DOUBLE			
SHORT BRIDGE SIDES				SINGLE			
FORECASTLE SIDES				DOUBLE			

  

FRAMES.				MASTS, SPARS, &c.			
Butts, Quads				Diameter and Thickness.			
Shelter Deck				At Partners.			
Stringer Plate				Heel.			
Upper Deck				Horns.			
Stringer Plate				Head.			
Frames, riveted through Plates with				No. of Plates in round.			
Rivets, state whether Iron or Steel				Angles.			
				Number.			
				Size.			
				Riveting.			
				Butts.			
LOWER MASTS				Fore			
Main				Main			
Mizen				Mizen			
Bowsprit				Bowsprit			
Topmasts, Yards and Remainder of Spars				Topmasts, Yards and Remainder of Spars			
Rigging, Material and Size, Shrouds				Rigging, Material and Size, Shrouds			
Sails.				Sails.			

EQUIPMENT No. 27532-10 LETTER W.										ANCHORS.									
Number of Certificate.		Anchors.		WEIGHT, EX. STOCK.		WEIGHT OF STOCK.		TEST, PER CERTIFICATE.		WEIGHT REQ. BY TABLE 31.		Description of Anchor.		Makers.		Where and when tested and Superintendent.			
744	1st Bower	57	0	26	46	15	2	14	32	2	0	Halle patent, 5' 4" H. K.	Kobe S. H. K.	Kobe	July 17, 1920	A. S. H.			
743	2nd "	56	1	15	46	4	2	31	45	0	0	"	"	"	"	"			
271	3rd "	45	2	4	39	11	1	0	147	2	0	"	"	"	"	"			
801	Stream	14	1	9	3	3	1	15	19	0	7	14	0	0	Admiralty, 2 1/2 ft	Kilamuna Iron Works, Osaka, Japan	Aug. 2, 1923		
866	Kedge	6	0	8	1	2	12	8	7	2	0	6	0	0	"	"	"		
Particulars of Drop Test of Cast Steel Anchors, viz.:-										1st Bower									
Weight, Surveyor's Initials, Number of Certificate, Date of Test.										32-1-23. A.N. 744 June 2, 1920. drop test 12'-0"									
										2nd "									
										31-2-27. A.W. 743 April 19, 1920									
										3rd "									
										27-1-18. A.L.J. 271 Jan 14, 1918									

  

CHAIN CABLES.										HAWERS AND WARPS.													
Number of Certificate.		Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and size per Table 31.		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 31.	
927	2702	276	765	1076	57	2	14	270	276	2	14	270	276	2	14	270	276	2	14	270	276	2	14
Boats, Lifeboats, 25' x 7' 3" x 3' 3" + 2 boats 18' x 5' 6" x 3' 3" Steering Gear, Steam										Buildings Steering Gear, Hand Buildings													
Pumps, Number one down on one hand, 6" dia.										Diameter of Barrel 5" x 3"													
Windlass is 10" x 12" 2 Builders										Capstan													
Engine Room Skylights, How constructed?										Plates & Angles													
Coal Bunker Openings, How constructed?										Plates & Angles													
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c.										6 Scuppers each side + 8 Freeing ports in Wells.													
Ceiling in Holds, thickness and material										2 1/2" O.P. under Hatchways													
Cargo Hatchways, How formed?										Plates & Angles													
State size No. 1 Hatch (Forward)										22'-0" x 20'-0" No. 2 Hatch 28'-0" x 20'-0" No. 3 Hatch 15'-0" x 13'-0" No. 4 Hatch 10'-0" x 20'-0"													
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch										4 in 2 1/2" 1.5 x 6 5 in 2 1/2" 1.5 x 6													
Bulwarks, height above deck and description										4'-0" x 26" plate													
The foregoing is a correct description.										Main Rail and Stays, material and size													
Builder's Signature (here enter)										Surveyor's Signature													
Builder's Signature (here enter)										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)	
Workmanship. Are the butts of plating planned or otherwise fitted?	
Is the riveted work properly closed?	
Are the liners between the frames and plates solid single pieces?	
Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other?	
Are the butts of Plating, Stringers, &c., properly shifted and strapped?	
Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)?	
Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)?	
General Remarks (State quality of workmanship, &c.)	

  

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 80.-
Special Survey Fee	4398.-
FREEBOARD SURVEY	1200.-
Travelling Expenses, if any	500.-
DEADWEIGHT CALCUL.	500.-
State whether the Vessel has been built under Special Survey	
I am of opinion this Vessel should be Classed	
With, or without Freeboard, as condition of Class	
Committee's Minute	
Character assigned	
Lloyd's excl. + Lmb. 12.23	
Shelter Deck w/ft	
Lloyd's excl. + Lmb. 12.23	
Shelter Deck w/ft	



## PARTICULARS OF LONGITUDINAL FRAMING.

GENE

FRAMING.		AMIDSHIPS.			ENDS.			AMIDSHIPS.			ENDS.			RIVETING.											
		In Ship.			In Ship.			Per Rule or as approved.			Per Rule or as approved.			Rivets in Longitudinal Frames.		Spacing of Rivets on each side of Transverses and Bulkheads.		Rivets in Brackets to Bulkheads.							
		Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Number.	Diameter.							
Framing of <del>Lower</del> C		6	35	35	7	5	7	6	35	35	7	5	7	7	8	5	5	5	7						
Frames in Bridge 'tween Decks...		"	"	"	6	35	35	"	"	"	"	"	"	"	"	"	"	"	"						
Frames from Uppermost Continuous Deck		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"						
No. 1		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"						
No. 2		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"						
No. 3		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"						
No. 4		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"						
No. 5		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"						
No. 6		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"						
No. 7		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"						
No. 8		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"						
No. 9		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"						
No. 10		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"						
No. 11		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"						
No. 12		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"						
No. 13		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"						
No. 14		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"						
No. 15		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"						
No. 16		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"						
Spacing of Longitudinal Frames		Amidships			30			30			30			30											
		At Ends			30			30			30			30											
Double Bottoms		Tank Top Longitudinals			6			35			35			7			5			7					
		Bottom			7			31			31			7			3			7					
Spacing of Longitudinals		Amidships			30			30			30			30			30			30					
		At Ends			30			30			30			30			30			30					
Transverses.		In Bridge			15			38			15			38			7			8					
		'tween Decks			4			3 1/2			4			4			7			8					
		In Awning, Shelter or Upper 'tween Decks.			16			40			16			40			7			8					
		In Hold.			19			48			19			48			7			8					
Spacing of Transverse Frames		11'-0"			12'-0"			11'-0"			12'-0"			11'-0"			12'-0"			11'-0"			12'-0"		
		State if joggled or liners.			Joggled			-			-			-			-			-			-		
Longitudinal Beams of		Bridge Deck			6			31			31			6			31			31			31		
		Upper			7			31			31			7			31			31			31		
		Second			7			31			31			7			31			31			31		
		Third			7			31			31			7			31			31			31		

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 30.0 ft., R.Q.D. ✓ ft., Bridge 99.0 ft., Forecastle 34.0 ft. (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 as should appear in the Register Book) 1 Deck (steel) + Shelter deck (steel) 2 tiers of Beams.

Official No. 29329; Signal Letters SMNY.

State if Machinery is fitted aft *no*

How are the surfaces preserved from oxidation? Inside Paint + Cement Outside Paint

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

Where Fitted.	Length.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
Double bottom, aft.	138'	550	Fore peak tank,	19'	115
Double bottom, under Engines and Boilers,	42.5	212	After peak tank,	10	29
Double bottom, if under Engines only,	46.0		Deep tank, aft,	31.5	690
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	102.5	356	Other tanks, if fitted,		
	283.0	1118	(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*

Order for Special Survey No.

Date

No. 963 in builder's yard.

DATES OF SURVEYS held while building

1921. Mar. 11; Apr. 11, 12, 20; May 3, 9, 12, 14; June 6, 18, 21; July 1, 7, 14; Aug. 24; Sept. 27; 1923:— July 9, 14, 31; Sept. 18, 20; Oct. 8; Nov. 27; Dec. 7, 10, 15, 16

Total No. of Visits 27

Surveyor's Signature

James Keaton