

Awning or Shelter Deck, or Pt. Awning Deck.

STEEL STEAMER.

No. 2715.

State if Report is also sent on the Machinery of the Vessel. THU. MAR. 25 1920

Port of Kobe Date of completion of Report Jan. 26th 1920 Received at London Office
Survey held at Kobe Date, First Survey Sept 8th 1919 Last Survey Jan. 16th 1920

On the (State if Single, Twin, or Triple Screw) Steel Single Screw Steamer DENMARK MARU Rig 2 masts

TONNAGE under Tonnage Deck... 4,125.11 CLASS 100 A1 AWNING DECK Master K. Ohara

Do. between Tonnage Dk. and 3rd, 4th, or Awning Dk. 1,395.00 Breadth (greatest moulded) 51.00

Total under Upper Dk. 5,590.11 Depth, at middle of length from top of keel to top of beams at side of uppermost Continuous Deck 36.00

Do. of Poop... Deduct height of 'tween deck when this does not exceed 8ft. 28.00

Do. of R. Qr. Dk. Transverse Number 79.00

Do. of Bridge House Length on deck from fore part of stem to after part of sternpost 385.00

Do. of Forecastle Longitudinal Number 304.00

Do. of Houses on Deck 201.64 Depth "d" at middle of length. See Secs. 2 & 13... 16.0

Do. of excess of Hatchways 23.94 Proportions, Depths to Length, Uppermost Continuous Deck at side to top of keel 10.7

Do. above Crown of Engine Room 54.17 " " " Upper Deck at side to top of keel 13.7

Gross Tonnage 5,869.86 Tonnage for Fees... 1,147.02

Less Crew Space ✓ Less Engine Room 393.63

Less above Crown of Engine Room ✓ Less Navigation Spaces 65.71

Net Tonnage 4,263.50 Destined Voyage

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

Built at Kobe When built 1919 Launched 4th Dec. 1919

By whom built Kawasaki Dockyard Co., Ltd.

Owners Kawasaki Kisen Kaisha, Ltd.

Managers

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

Residence Kobe

Port belonging to Kobe

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

LENGTH on keel as per Rule	Ft.	Ins.	BREADTH Moulded	Ft.	Ins.	DEPTH, ACTUAL - Top of Floors to top of Awn. or Shelter Dk. Beams	Ft.	Ins.	No. of Decks with flat laid
<u>385.00</u>	<u>385</u>	<u>00</u>	<u>51.00</u>	<u>51</u>	<u>00</u>	<u>36.00</u>	<u>36</u>	<u>00</u>	<u>3</u>
						Do. Upper Deck Beams	<u>25.7</u>	<u>25</u>	<u>3</u>

Dimensions of Ship per Register, Length 385' breadth 51' depth 36' Awn. or Shelter Dk. Moulded depth, ft. 36 ins. 0 To Awning or Shelter Dk. Round up of Uppermost Dk. Beam, Actual ... 12 3/4 ins.

FRAMING.				PILLARS.			
NAME, Angles, Bars, amidships	Inches in Ship	Inches in Ship	Inches per Rule	PILLARS, In 'tween Deck, size and spacing	Inches in Ship	Inches in Ship	Inches per Rule
o. in peaks Fore Pk. 8x3 1/2 x 4 1/2 Aft. Pk.	L 9 3 1/2	552	L 9 3 1/2	7x3 1/2 x 438 @ 13 ft. 3 in.	7	3 1/2	438
o. in way of Double Bottoms at Solid Floors	L 6 3 1/2	36	L 6 3 1/2	5x5 x 40 @ 13 " Equal	5	5	40
" " at intermdt. Bkts	L 3 1/2	40	L 3 1/2	5x5 x 44 @ 15 " or	3	1/2	44
ing of Frames from centre to centre amidships	L 7 3 3/2	18 1/2	L 7 3 1/2	6x6 x 64 @ 13 " or	6	6	64
length to collision bulkhead from 3/4	25 1/2	✓	25 1/2	8x8 x 72 @ 15 " or	8	8	72
of Frames from centre to centre in peaks	24	✓	24				
VERSED FRAME, Angles, A.P.	3 1/2	3	36				
o. in way of Double bottoms at Solid Floors	3 1/2	3 1/2	40				
" " at intermdt. Bkts	7	3328	18 1/2				
ING, depth of girder A.P.	6	✓	6				
ORS, depth and thickness of Floor Plate at mid-line for 3/4 length amidships	*		*				
" in way of Engine and Boiler spaces	"		"				
thickness at the ends of vessel	"		"				
depth at 3/4 the half-bdth. as per Rule	"		"				
height extended at the Bilges	"		"				
ORS, in Cell Double Bottoms	40-36	✓	40-36				
state if flanged (top and bottom)	No	✓	No				
spacing of Solid... 24 in. Pk.	25 1/2	51	24				
TRE GIRDER, in Dbl. bottom, dpth. & thcknss	42	50	40				
" Angles, Top Double	3 1/2	3 1/2	50				
" " Bottom	4 1/2	4 1/2	60				
" " to Floors Sing.	5	5	56				
Brackets at intermdt. frmg., wdth & thcknss	36	40-36	36				
GIRDERS, number and thickness	Two 38	36	Two 38				
state if flanged (top & bottom)	Top 3 1/2	FLANGE	Top 3 1/2				
Angles	3 1/2	3 1/2	40				
GIN PLATE, depth (exclusive of flange) and thickness	38-32	46	38-32				
Angles to outside plating	3 1/2	3 1/2	46				
" to floors	3 1/2	3 1/2	40				
Brackets at intermdt. frmg., wdth & thcknss	30	40-36	30				
Height of Brackets above at bilge	24	✓	24				
R BOTTOM PLATING, breadth and thickness of Middle Line Strake	42	50-40	42				
" thickness in Engine and Boiler space	E 48	B 56	E 48				
" Remainder in Holds	40-34	✓	40-34				
IS, Awng on Deck Dk, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel	L 7 1/2	3	425				
Spacing	25 1/2	✓	25 1/2				
IS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel	L 10 3 1/2	56	L 9 3 1/2				
Spacing	51	✓	51				
IS, Second, Third & Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel	L 10 3 1/2	66	L 11 3 1/2				
Angles on upper edge	✓	✓	✓				
Spacing	51	✓	51				
IS, 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							

WEB FRAMES.				FORGINGS or CASTINGS.			
		Inches in Ship.	Inches in Ship.			Inches in Ship.	Inches per Rule, Or as Approved.
WEB-FRAMES, In Fore Body, No. and spacing		Three @ 8'-6"	Three @ 8'-6"	KEEL, Bar, depth and thickness		Plate Keel	
" " " " " " " " " " " "		26	48	STEM, moulding and thickness		10 x 2 3/4 10 x 2 3/4	
" " " " " " " " " " " "		Two 42" Angle	7 x 3 1/2 x 58	STERN-POST for Rudder do. do.		9 x 7 1/2 9 x 7 1/2	
WEB-FRAMES, In E. & B. Space, No. and spacing		Two @ 5'-6" Angle	7 x 3 1/2 x 58	" " " " " " " " " " " "		10 x 7 1/2 10 x 7 1/2	
" " " " " " " " " " " "		20	42	RUDDER-A x D* Table 22. Speed U. 12		14659 x 3.74 = 548.25	
WEB-FRAMES, In After Body, No. and spacing		Spaced 10 ft. from top as apprd.		" " " " " " " " " " " "		10 1/2 10 1/2	
" " " " " " " " " " " "		33	40	" " " " " " " " " " " "		8 8	
" " " " " " " " " " " "		33	40	RUDDER, how constructed		Cast Steel Frame	
" " " " " " " " " " " "		7 x 3 1/2 x 62	7 x 3 1/2 x 62	" " " " " " " " " " " "		1.1	
BRACKET PLATES to Stringers between Web Frames, depth and thickness				Can the Rudder be unshipped afloat? yes			
BULKHEADS.		Number. 6	Thickness. 6	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.?			
STIFFENERS.		Number. 6	Thickness. 6	Open Hearth			
W.T. BULKHEADS		Fr. 14	36-26	Carnegie Steel Co., Inland Steel Co., Midvale Steel Co.			
" " " "		42	36-26	Sakawanna Steel Co. + Kawasaki (Hyogo) Steel Works for Stern Frame + Rudder frame.			
" " " "		69	34-26	Has the Steel been tested as required by the Rules? yes			
" " " "		93	36-26				
" " " "		143	36-26				
" COLLISION "		172	40-26				
PARTITION "							
LONGITUDINAL "							
Are the outside Plates doubled two spaces of Frames in length? No (Backsets)							
Are the Water Watertight Doors in efficient working order? Yes							
PLATING.				RIVETING.			
AS IN SHIP.		PER RULE OR AS APPROVED.		EDGES, Ordinary or Joggled?		BUTTS.	
STRAKES.		AMIDSHIP.		AMIDSHIP.		AMIDSHIP.	
Breadth. Thickness.		Breadth. Thickness.		Breadth. Thickness.		Breadth. Thickness.	
Inches. Inches.		Inches. Inches.		Inches. Inches.		Inches. Inches.	
Flat Plate Keel.....		46 96		46 96		46 96	
Garboard of A Strake		62 46		62 46		62 46	
State actual thickness in way of Double Bottom.		62 46		62 46		62 46	
B "		62 46		62 46		62 46	
C "		62 46		62 46		62 46	
D "		62 46		62 46		62 46	
E "		62 46		62 46		62 46	
F "		62 46		62 46		62 46	
G "		62 46		62 46		62 46	
H "		62 46		62 46		62 46	
J "		62 46		62 46		62 46	
K "		62 46		62 46		62 46	
L "		62 46		62 46		62 46	
M "		62 46		62 46		62 46	
N "		62 46		62 46		62 46	
O "		62 46		62 46		62 46	
P "		62 46		62 46		62 46	
Q "		62 46		62 46		62 46	
R "		62 46		62 46		62 46	
S "		62 46		62 46		62 46	
T "		62 46		62 46		62 46	
U "		62 46		62 46		62 46	
V "		62 46		62 46		62 46	
W "		62 46		62 46		62 46	
THICKNESS OF STRAKE CLEAR OF LONG BRIDGE DO. OF STRAKE BELOW DELG. of Flat Plate Keel		46 96		46 96		46 96	
" Sheerstrakes		46 96		46 96		46 96	
Length and thickness.		46 96		46 96		46 96	
POOP SIDES		46 96		46 96		46 96	
SHORT BRIDGE SIDES		46 96		46 96		46 96	
FORECASTLE SIDES		46 96		46 96		46 96	
Awning or Shelter Deck		Butts, riveted for Half length amidship.		Butts of Side Stringers riveted.		Tie Plates riveted.	
Stringer Plate		Straps, single or overlapped for whole length amidship.		Inner Bottom Plating, riveting of Edges Others Single Butts Riveted		Centre Girder Butts, Riveted. Keelson Butts, riveted.	
Upper Deck		Butts, riveted for Half length amidship.		Frames, riveted through Plates with 7/8 in. Rivets, about 7 dia. apart.		Rivets, state whether Iron or Steel Steel	
Stringer Plate		Straps, single or overlapped for whole length amidship.					
FRAMES extend in one length from Bilge to Upper Deck to 2nd AK. alternately State if ordinary or joggled Joggled							
REVERSED FRAMES on floors and frames extend from Keel to Upper deck in A.P. State if ordinary or joggled Ordinary							
MASTS, SPARS, &c.							
		DIAMETER AND THICKNESS.		No. of Plates in round.		ANGLES.	
		At Partners. Heel. Hounds. Head.		Number. Size.		Seams. Butts.	
LOWER MASTS.....		Fore Steel 63'-0"		26 x 44 24 x 44 20 x 30		Two 3 B.A. 3 x 6 x 42 Single Treble + Doubl.	
Main "		66'-0"		22 x 40 20 x 40 17 x 30		3 A 3 x 3 x 40 " "	
Mizen.....							
Bowsprit.							
Topmasts, Yards and Remainder of Spars Pine							
Rigging, Material and Size, Shrouds Fore 2 a side 5" S.W; Main 2 a side 4" Stays Fore 5", Cap 3", Defenders Two 5"							
Sails.		Suit of		Sails, and the following spare sails Main 4", Cap 2", Aft + Back 2 1/2"			

EQUIPMENT No. 33259 LETTER "Y" ANCHORS.									
Number of Certificate.		Anchors.		WEIGHT, EX. STOCK.		TEST, PER CERTIFICATE.		WEIGHT REQ. BY TABLE 31.	
				Cwts. qrs. lbs.		Tons. cwt. qrs. lbs.		Cwts. qrs. lbs.	
81495		1st Bower		59 0 18		47 18 0		14 56 3	
81490		2nd "		58 0 0		47 5 0		14 56 3	
81494		3rd "		56 3 16		46 12 2		14 56 3	
81874		Stream		16 2 14		17 18 1		21 16 1	
81863		Kedge		7 1 10		9 11 2		7 0 0	
Particulars of Drop Test of Cast Steel Anchors, viz.:-		1st Bower		34 2 0		C.E.P		100	
Weight, Surveyor's Initials, Number of Certificate, Date of Test.		2nd "		34 0 21		C.E.P		90	
		3rd "		32 2 0		W.C.		2186	
								4-Apr. 1919	
								27-Mar. 1919	
								11-Feb. 1919	
CHAIN CABLES. HAWSERS AND WARPS.									
Number of Certificate.		Length and size supplied.		TEST PER CERTIFICATE.		WEIGHT OF CHAIN CABLE.		Length and Size per Table 31.	
		Length. Diam.		Tons. cwt. qrs. lbs.		Tons. cwt. qrs. lbs.		Length. Diam.	
		Fathoms. Ins.		Tons. cwt. qrs. lbs.		Tons. cwt. qrs. lbs.		Fathoms. Ins.	
12690		135 2 3/8		86 8 12 1/2		328 1 8		453 0 27 0 2 3/8	
12691		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12692		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12693		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12694		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12695		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12696		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12697		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12698		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12699		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12700		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12701		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12702		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12703		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12704		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12705		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12706		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12707		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12708		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12709		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12710		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12711		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12712		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12713		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12714		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12715		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12716		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12717		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12718		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12719		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12720		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12721		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12722		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12723		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12724		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12725		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12726		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12727		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12728		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12729		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12730		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12731		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12732		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12733		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12734		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12735		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12736		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12737		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12738		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12739		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12740		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12741		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12742		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12743		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12744		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12745		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12746		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12747		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12748		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12749		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12750		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12751		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12752		135 1/8		67 6 5 1/2		327 0 3		453 0 27 0 2 3/8	
12753		135 1/8		67 6 5 1/2</					

GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle ✓ 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 should appear in the Register Book) 2 DECKS (STEEL) & AWNING DECK (STEEL) ✓
Official No. 26195 ; Signal Letters R.S.L.G. State if Machinery is fitted aft No
How are the surfaces preserved from oxidation? Inside Cement + Paint Outside Paint

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

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	116.9	342	Fore peak tank,		124
Double bottom, under Engines and Boilers,	44.6	182	After peak tank,		93
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	172.1	594	Other tanks, if fitted,		
	Total capacity of double bottom	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. 471 in builder's yard.

DATES of Surveys held while building

1919 Sept.- 8, 9, 10, 11, 15, 16, 17, 30. Oct.- 1, 2, 4, 7, 8, 9, 10, 11, 13, 14, 15, 16, 21, 22, 23, 27, 30. Nov.- 1, 3, 5, 6, 7, 11, 14, 17, 18, 20, 22, 24, 25, 26, 27, 28, 29.
Dec.- 1, 2, 3, 4, 8, 12, 17, 23, 26, 27.
1920 Jan.- 7, 8, 12, + 16th.

Total No. of Visits 56

Surveyor's Signature

A Watt

Lloyd's Register Foundation