

## STEEL STEAMER OF MOTORSHIP.

Received at London Office 26 MAR 1929

State if Report has been sent on the Freeboard of the Vessel not requiredState if Report is sent on the Machinery of the Vessel yesDate of completion of report 28<sup>th</sup> Feb 1929Port of KobeNo. 6426Survey held at OsakaDate First Survey 5<sup>th</sup> June 1928Last Survey 23<sup>rd</sup> February 1929

On the (State if Machinery fitted Air and if Single, Twin or Triple Screw)

Single Screw Steamer **BUJUN MARU**

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

Full ScantlingState Type of Erections Forecastle, Short Bridge, and PoopTONNAGE under Tonnage Deck... 3978.50

CLASS

State if with freeboard as condition of Class

Built at Osaka

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 370Breadth (greatest moulded) B 51Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 291st Longitudinal Number (L x D) = 107302nd Numeral L x (B + D) = 29600Framing Depth "d," at middle of length. See Sec. 3 (1d) 28.00Proportions—Depth to Length—Uppermost continuous deck to top of keel 12.76  
Do. Long Bridge to top of keelDraught Moulded 23'-7.36"Launched 24<sup>th</sup> Dec 1928 Yard No. 1124Builders new Osaka Iron WorksOwners Dairen Kisen Kabushiki KaishaManagers -

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

Residence -Port of Registry Dairen

If surveyed while building, afloat, or in dry dock

while building

## 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.
<b>FRAMES, Spacing amidships</b> .....	<u>33"</u>		<b>Bracket Floors, Frame</b> <u>C</u> .....	<u>9 x 3 1/2 x 3 1/2 x 37 1/2 / 50</u>	
" " from 1/2 length to Collision bulkhead .....	<u>27"</u>		" " Reversed Frame <u>C</u> .....	<u>9 x 3 1/2 x 3 1/2 x 37 1/2 / 50</u>	
" " in peaks .....	<u>24"</u>		" " Vertical Struts .....	<u>9 x 3 1/2 x 3 1/2 x 37 1/2 / 50</u>	
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>	<u>41" x 50"</u>	
Frame Amidships, Angle, <u>E or F</u> .....	<u>8 3 1/2 43</u>		" " top Angles <u>Double</u> .....	<u>3 x 3 x 50</u>	
" " Extends up to .....	<u>Upper Deck</u>		" " bottom Angles <u>Double</u> .....	<u>4 x 4 x 54</u>	
Reversed Frame Amidships, Angle .....	<u>10 3 1/2 47</u>		<b>Side Girders, No. each side and thickness</b> .....	<u>one 38</u>	
" " Extends up to .....	<u>Upper Deck</u>		<b>Margin Plate</b> depth (excl. of flange) and thickness .....	<u>36" x 50</u>	
Depth of Framing Girder .....	<u>14.2"</u>		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem .....	<u>6 x 6 x 45</u>	
Frames in Uppermost Continuous 'tween Decks, Angle, <u>C</u> or <u>F</u> .....	<u>-</u>		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem .....	<u>Horizontal margin plate - see app'd plan.</u>	
" " Second 'tween Decks, Angle, <u>C</u> or <u>F</u> .....	<u>-</u>		" " Gussets, spacing and scantling abaft 1/2 len. from stem .....	<u>6 x 6 x 48</u>	
" " Third " " " " " " .....	<u>-</u>		" " Gussets, spacing and scantling forward 1/2 len. from stem .....	<u>See app'd plan.</u>	
Framing in Peaks, Angle or <u>C</u> .....	<u>7 1/2 3 34</u>		<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>	<u>76 1/2"</u>	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships .....	<u>7/8" diam at 6 diameters apart</u>		<b>INNER BOTTOM PLATING.</b>		
State if Frame Joggled .....	<u>yes</u>		Breadth and thickness of Middle Line Strake .....	<u>49" x 48"</u>	
<b>PANTING ARRANGEMENTS</b> (Sec. 7), state system and particulars)	<u>Long fore peak See app'd plan.</u>		Thickness of remainder in Holds .....	<u>43"</u>	
<b>STRENGTHENING OF BOTTOM FORWARD.</b> State Particulars .....	<u>Add: half height intercostal girders. Double riveted frames and A B &amp; C strake maintained midship thickness: all as required by Section 11 of the Rules.</u>		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? .....	<u>yes</u>	
<b>SINGLE BOTTOM.</b>			<b>BEAMS.</b>		
Floors, Depth and thickness at mid-line in Holds .....	<u>7 1/2 x 3 1/2 x 36</u>		Uppermost Continuous Deck, amidships in Wells, Angle, <u>E or F</u> .....	<u>6 1/2 x 3 1/2 x 32 half beams</u>	
Height of Brackets at side above base line at toe of frame .....	<u>7 1/2 x 3 1/2 x 36</u>		" " in way of Bridge, Angle, <u>E or F</u> .....	<u>Every frame</u>	
Middle Line Keelson, on Floors, Angles, <u>C</u> or <u>F</u> .....	<u>7 1/2 x 3 1/2 x 36</u>		Spacing .....		
" " Through Plate or Intercostal Plate .....			<b>Second Deck, amidships, Angle, <u>C</u> or <u>F</u> .....</b>		
" " Foundation Plate on Floors .....			Spacing .....		
" " Flat Plate Keel Angles .....			<b>Third Deck, amidships, Angle, <u>C</u> or <u>F</u> .....</b>		
Side Keelsons, No. each side .....			Spacing .....		
" " thickness of Intercostal Plate .....			<b>Fourth Deck, amidships, Angle, <u>C</u> or <u>F</u> .....</b>		
" " Angles .....			Spacing .....		
<b>DOUBLE BOTTOM.</b>			<b>Poop Deck, Angle, <u>E</u> or <u>F</u> .....</b>	<u>8 x 3 x 46</u>	
Solid Floors, thickness and spacing .....	<u>Every 3<sup>rd</sup> frame 41"</u>		Spacing .....	<u>Every frame</u>	
" " Are Frame and Reversed Frame joggled? .....	<u>Frame joggled R.F. not joggled</u>		<b>Bridge Deck, Angle, <u>E or F</u> .....</b>	<u>6 1/2 x 3 x 50</u>	
Bracket Floors, breadth and thickness at middle line .....	<u>30 3/4 x 41</u>		Spacing .....	<u>Reversed angle 2 1/2 x 2 x 25</u>	
" " breadth and thickness at margin plate .....	<u>30 3/4 x 41</u>		<b>Forecastle Deck, Angle, <u>E or F</u> .....</b>	<u>7 x 3 1/2 x 46</u>	
			Spacing .....	<u>Every frame</u>	



# PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>PILLARS, No. of Rows.....</b>	<i>Subo</i>		Stringer Plate, breadth and thickness in way of Bridge .....		
"    in 'tween Decks, Size and Spacing.....	<i>-</i>		Thickness of Plating abreast Deck openings in way of Wells .....		
"    "    "    "    "			Thickness of Plating abreast Deck openings in way of Bridge .....		
"    in Holds    "    "	<i>See approved plan</i>		Thickness of Plating within line of openings...		
"    "    "    "    "			If Sheathed, material and thickness .....		
<b>Centre Line Bulkhead.</b>			<b>Third Deck.</b>		
Stiffeners and Spacing.....	<i>-</i>		Stringer Plate, breadth and thickness.....		
Plating, thickness of .....	<i>-</i>		If Plated, state thickness.....		
<b>STRINGERS AND DECKS.</b>			<b>Fourth Deck.</b>		
<b>Uppermost Continuous Deck.</b>			Stringer Plate, breadth and thickness.....		
Stringer Plate, breadth and thickness in Wells	<i>72" x .96</i>		If Plated, state thickness .....		
"    "    "    "    "    in way of Bridge	<i>72 x 1.25</i>		<b>Poop Deck.</b>		
"    Angle in Wells .....	<i>6 x 6 x .81</i>		Stringer Plate, breadth and thickness .....	<i>34" x .34</i>	
Thickness of Plating abreast Deck openings in way of Wells .....	<i>.96</i>		Plating, Sheathing, material and thickness .....	<i>.30</i>	
Thickness of Plating abreast Deck openings in way of Bridge .....	<i>.96</i>		<b>Bridge Deck.</b>		
Thickness of Plating within line of openings...	<i>.40</i>		Stringer Plate, breadth and thickness.....	<i>39" x .40</i>	
If Sheathed, material and thickness .....	<i>none</i>		Plating, Sheathing, material and thickness .....	<i>.30</i>	
<b>Second Deck.</b>			<b>Forecastle Deck.</b>		
Stringer Plate, breadth and thickness in Wells...	<i>-</i>		Stringer Plate, breadth and thickness .....	<i>34" x .34</i>	
			Plating, Sheathing, material and thickness .....	<i>33" hot Sheathed</i>	

## SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged?			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.		
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL .....	49"	.74"	.66	.66		Double	1"	3 3/4	Quad & triple	1"	4"	Single butt strap.	
„ DBLG. (if any)													
BOTTOM PLATING, No. of Strakes A.B.C..)		.63	.46	.46		Double	7/8"	3-3"	triple	7/8	3 1/8	lapped.	
BILGE PLATING, No. of Strakes ..D.....)		.63	.46	.46		do	7/8	3-3	do	7/8	3 1/8	do.	
SIDE PLATING, No. of Strakes ..E.&F....)		.63	.44	.44		do	7/8	3-3	do	7/8	3 1/8	do	
UPPER DECK, Sheer-strake in Wells.H..)	70"	.81	.44	.44		do	1"	3 3/4	Quad. & triple	1"	4"	do	
UPPER DECK, Sheer-strake in Bridge ...)	70	.97	-	-	95 approved	do	1"	3 1/2	triple	1"	4"	Old Butt Strap	
STRAKE BELOW Sheer-strake in Wells.G..)	81	.63	.44	.44		do	7/8	3-3"	triple	7/8	3 1/8	lapped.	
STRAKE BELOW Sheer-strake in Bridge ...)	81	.63	-	-		do	7/8	3-3	triple	7/8	3 1/8	lapped	
POOP SIDE PLATING .....				.37		Single	3/4	3"	Single	3/4	2 5/8	do	
BRIDGE SIDE PLATING ...		.40				Single	7/8	3-3	Single	3/4	2 5/8	do	
FOREC'TLE SIDE PLATING			.40			Single	3/4	3"	Single	3/4	2 5/8	do	

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—						
Extending to Upper Deck (Sec. 3 c)		Six				
,, Deck next below		—				
As per Rule		Six				
		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
Holds frame 64					6 x 3 x 32 BA	
MIDSHIP BULKHD, Upper 'tween decks		26-42	3rd webs		10 x 3 1/2 x 48 BA	30"
,, Second frame 87		26-48	ditto		6 x 3 x 32 BA	30"
,, Third frame 53		26-48	ditto		6 x 3 x 32 BA	30"
,, Holds frame 36		26-44	ditto		6 x 3 x 32 BA	30"
COLLISION (in Hold)		30-50	8 1/2 x 36 BA	24"	Two Semi box beams	
AFTER PEAK		30-48	7 x 3 x 32 BA	24"	One stiff & one semi box beam	

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar .....				
STEM .....	<i>Rolled</i>	<i>9 1/2 x 2 1/2</i>	<i>Lanarkshire Stl Co.</i>	
STERN FRAME { Propeller Post .....	<i>Casting</i>	<i>10 1/2 x 7</i>		
{ Rudder .....		<i>9 x 7 1/4</i>		
RUDDER—A x D .....		<i>6 x 6</i>		
Speed of Vessel .....		<i>10 knots</i>		
RUDDER mainpiece at head ...		<i>11"</i>	<i>Kobe Steel Works</i>	
"    "    heel ...		<i>8 1/2</i>		
"    how constructed .....		<i>head and mainpiece forged, arms cast</i>		
"    double or single plate coupling, vertical or horizontal .....		<i>Single</i>		

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) <i>Open hearth process</i>
	<i>David Colville &amp; Co. Ltd; Cargo Fleet Iron Co; Dorman Long Ltd; The Lanarkshire Steel Co. Ltd; Bolckow Vaughan &amp; Co. Ltd; Aramo Shipbuilding Co.; Kawasaki Shipbuilding Co. Ltd</i>
	Has the Steel been tested as required by the Rules? <i>Yes</i>



EQUIPMENT No. 30907												LETTER X		ANCHORS. 3B 1st.		
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.				
936	1st Bower ...	54	2	5				45	1	1	0	53 $\frac{3}{4}$	Stocklin. CS head	Kobe Steel Ltd	Kobe Steel Works Nagasaki Japan	2. 11. 28 a wall
940	2nd " ...	54	0	9				44	16	2	7	"	Tagged Shank.	Limited		2. 11. 28 "
937	3rd " ...	53	3	8				44	13	3	0	"	do	do.		2. 11. 28 "
	Collective weight.	162	1	22								161 0 0	do			2. 11. 28 "
947	Stream .....	15	0	16	3	3	22	16	12	0	21	15, 0. 0	Ordinary. C.P. Bodley & Tagged Block.	do.		2. 11. 28 "
CHAIN CABLES																

CHAIN CABLES.										HAWSERS 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.	Statutory.	Breaking.	Supplied.	Per Rule.	Length.	Diam.	Length.	Ins.					Length.	Ins.			
1596	273 1/2	2 1/8	81 1/2	113 3/4	652.0.1	608.3.0	270	2 1/8	Steel link Osaka Chain works Ltd	Osaka Iron Works	22.12.28 4.30.	TOWLINE...	120	4 1/2	64.55	120	4 1/2		
Iron Stream Steel Wire	90	Cir. 4 1/2		65.66			90	4 1/2	Stl wire Tokyo Seiko galvanised	K.K.	HDB Kobe 19.8.28	HAWSERS & WARPS	90	7"	Hump				
													90	7"					
													90	7"					
													90	7"					

Steering Gear, Steam Vertical Type 2 cyl, make Osaka Iron Works.      Steering Gear, Hand Tiller & Lead, & winches.

Boats 2 life boats 22' x 7.25' x 3.0'      Steering Chains, Size and Test      Windlass 2 cylinder, horizontal type

Coiling in Holds, thickness and material 2 1/2" Japawan pine      Cargo Battens, thickness, material and spacing none

Laid on 3" x 1 1/2" battens.

Cargo Hatchways.—(Upper Deck) Steel plate angles      Thickness of Hatches 3"

Size of No. 1 Hatchway (Forward) 30'3" x 28'0" No. 2 27'9" x 28'0" No. 3 27'9" x 28'0" No. 4 30'3" x 28'0" No. 5 30'3" x 28'0"

Number of Shifting Beams and/or Fore and Afters five to each hatch, no for afters.

Builder's Signature S. Kaneko

GENERAL DECLARATION This vessel has been built under Special Survey, and, in accordance with the Rules and approved plans.

The materials and workmanship employed were good. the materials have all been tested in accordance with the Society's requirements.

The Peaks, the double bottom tanks, the wells, the decks and bulkheads, the hand pumps and the watertight doors have all been tested as required by the Rules.

The vessel is eligible to have the notation Lloyd's R.C.P. also "Cargo Battens not fitted"

The amount of Entry Fee ..... £ Yen: 86:00      Fees applied for, 25-2-1929

Special Survey Fee.... £ Yen: 5040:00      Received by me, 2.5.29

Travelling Expenses, if any £ Yen: 190:00

Special Decksight Ent. 100:00

State whether the Vessel has been built under Special Survey yes.

Certificate to be sent to Builders      Date of issue 12/4/29

I am of opinion the Vessel should be Classed +100A1

Signature Inordant In. Parker.      Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 12 APR 1929

Character assigned 100A1

Lloyd's R.C.P. Thms 2.29

Cargo battens not fitted J.D. O.G.

Write Kobe (H + M)

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The Surveyors are requested not to sign the Committee's Minute.





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 List of the Plans should be embodied.)

Prints of Midship Section and Profile & Decks of the vessel as built, together with copies of forging reports and steel advice notes are forwarded herewith. The approved plans are being retained until the completion of the sister vessel and also the steel advice note which refers to both vessels: these will be forwarded with the report of the sister vessel.

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

1st Bower	32 - 1.2	A. bath	936	Oct 12 <sup>th</sup> & 25 <sup>th</sup> 1928	} as Kobe.
2nd "	31 - 2.7	do	937	" 3 <sup>rd</sup> & 25 <sup>th</sup> 1928	
3rd "	30 - 1.26	do	940	" 12 <sup>th</sup> & 25 <sup>th</sup> 1928	

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 96.25 ft., R.Q.D. — ft., Bridge 19.25 ft., Forecastle 46.5 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (this information is to be given as it should appear in the Register Book)

1 DK. Pl.

Official No. ; Signal Letters

Is bottom of Vessel coated with cement *Par Cem.* if not

particulars of composition *Portland Cement & Sand.*

#### PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,		
Double bottom, under Engines and Boilers,	60.5	182.0	After peak tank,		
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward, + amidships	235.0	822.0	Other tanks, if fitted,		
Total capacity of double bottom			(If necessary, furnish further information by sketch.)		

\* The wells are not to be included in the lengths of the tanks.  
295 1004

Order for Special Survey No. 26

Date 16 Feb 1928

Dates of Surveys held while building

June 1928 - 5, 14, 28  
July 1928 - 6, 13, 19, 25, 27  
Aug. 1928 - 3, 10, 23  
Sept. 1928 - 12, 22, 27  
Oct. 1928 - 4, 9, 11, 13, 22, 25

Nov 1928 - 8, 12, 20, 24, 26, 30

Dec 1928 - 4, 6, 11, 13, 18, 20, 24,

Jan 1929 - 7, 9, 17, 18, 30

Feb 1929 - 7, 9, 14, 16, 18, 19, 21, 23

Total No. of Visits 4