

STEEL STEAMER or MOTORSHIP.

Received at London Office 4 AUG 1931

State if Report has been sent on the Freeboard of the Vessel No

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

Date of completion of report 13th July, 1931.

Port of NAGASAKI

No. 1794

Survey held at NAGASAKI

Date First Survey 15th Dec. 1930.

Last Survey 30th June 1931.19

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Steel Single Screw Motor Ship "KAHOKU MARU".

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

State Type of Erections Poop, Bridge & Forecastle.

TONNAGE under Tonnage Deck... 2,798.05

CLASS *100A1.

State if with freeboard as condition of Class No

Built at Nagasaki.

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 335.0

Breadth (greatest moulded) B 48.5

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 24.0

Total 2,798.05

Gross Tonnage 3,277.99

Register Tonnage 1,875.33

1st Longitudinal Number (L x D) = 8040

2nd Numeral L x (B + D) = 24288

REGISTERED DIMENSIONS.

FEET.

Length 336.6

Breadth 48.5

Depth 24.0

Framing Depth "d," at middle of length. See Sec. 3 (1d) 13'-5"

Proportions—Depth to Length—Uppermost continuous deck to top of keel 13.96

Do. Long Bridge to top of keel 10.55

Draught Moulded 19'-10.56"

Launched 20th April 1931 Yard No. 491.

Nagasaki Works, Builders Mitsubishi Zosen Kaisha, Ltd.,

Owners Dairen Kisen Kabushiki Kaisha.

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

Residence Dairen.

Port of Registry Dairen.

If surveyed while building, afloat, or in dry dock

While Building.

FRAMES, DOUBLE BOTTOM AND BEAMS.

	or m/m INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		or m/m INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	30		Bracket Floors, Frame	B.A. 7 3 1/2 .425	
" " from 1/2 length to Collision bulkhead	25		" " Reversed Frame	" 5 1/2 3 .35	
" " in peaks	24		" " Vertical Struts	Ch. 230x90x90x9.5 B.A. 5 1/2 3 .35	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	38 .47-.38	
Frame Amidships, Angle, 20°	8 3 1/2 .45		" " top Angles	D.A. 75 75 11 Eng.space. A. 130 130 11-10.5	
" " Extends up to	U.D. or B.D. web cut down to form 6x3x.45 L between 2nd & U.D. alternately and in Bridge 6x3x.45 every frame.		" " bottom Angles	D.A. 90 90 13-12	
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	One .35 .45 in Eng.space .42 at 25 frame spacing	
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	30 1/2 .44	
Depth of Framing Girder	8		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	90x90x9 in way of 2nd dk. 130x130x9	
Frames in Uppermost Continuous 'tween Decks, Angle, 20°	8 3 1/2 .45		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	130x130x9	
" " Second 'tween Decks, Angle, 20°	6 3 1/2 .45		" " Gussets, spacing and scantling abaft 1/2 len. from stem	15% .39-.35 every frame in No.1 hold.	
" " Third " " "	/		" " Gussets, spacing and scantling forward 1/2 len. from stem	.39 every 3rd frame in way of F.O. tank.	
Framing in Peaks, Angle, 20°	180 75 9.5	(as plans)	" " Gussets, spacing and scantling forward 1/2 len. from stem	.39 every 4th frame in way of 2nd deck.	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 6 1/2 dia		Tank Side Brackets, height above base line at toe of Frame and thickness	.35 every frame. 55" from top of keel.	
State if Frame Joggled	Yes		INNER BOTTOM PLATING.		
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	Deep frames arrangement, 300x90x90x11/15.5 Ch. extends to U.D. or F'dle deck where fitted. web cut down to form 150x90x11/15.5 A between U. and F.D. Additional int. side girders fitted 8' apart & 1/2 height extending forward as far as practicable. Three strakes of shell plating next to keel midship thickness maintained .57 forward.		Breadth and thickness of Middle Line Strake	.45 in Eng.space 47 .43-.37	
STRENGTHENING OF BOTTOM FORWARD. State Particulars			Thickness of remainder in Holds	52 .45 in way Tunnel. 40-.37 & .34	
SINGLE BOTTOM.			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?	/	
Floors, Depth and thickness at mid-line in Holds			BEAMS.		
Height of Brackets at side above base line at toe of frame			Uppermost Continuous Deck, amidships	180 75 9.5	
Middle Line Keelson, on Floors, Angles, [or]			" " in Wells, 20°	180 75 9.5	
" " Through Plate or Intercoastal Plate			" " in way of Bridge, 20°	180 75 9.5	
" " Foundation Plate on Floors			Spacing	Every frame	
" " Flat Plate Keel Angles			Second Deck, amidships, Angle, [or]	180 75 9.5	
Side Keelsons, No. each side			Spacing	Every frame	
" " thickness of Intercoastal Plate			Third Deck, amidships, Angle, [or]		
" " Angles			Spacing		
DOUBLE BOTTOM.			Fourth Deck, amidships, Angle, [or]		
Solid Floors, thickness and spacing	.39 .35 at 25" spacing .44 in Eng.space. Every 3rd frame except in Eng.space, forward of Bridge Deck, 3/5 L and at narrow ends.		Spacing		
" " Are Frame and Reversed Frame joggled?			Poop Deck, Angle, 20°	180 75 9.5	
Bracket Floors, breadth and thickness at middle line	Frame only 30 .39		Spacing	Every frame	
" " breadth and thickness at margin plate	30 .39		Forecastle Deck, Angle, 20°	180 75 9.5	
			Spacing	Every frame	

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.
PILLARS, No. of Rows.....			Stringer Plate, breadth and thickness in way of Bridge	45" .34	
.. in 'tween Decks, Size and Spacing.....	Widely Spaced		Thickness of Plating abreast Deck openings in way of Wells .....	.30	
" " " " "	Pillars.		Thickness of Plating abreast Deck openings in way of Bridge .....	.30	
" in Holds " "			Thickness of Plating within line of openings...	.30	
" " " " "			If Sheathed, material and thickness		
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing.....			Stringer Plate, breadth and thickness.....		
Plating, thickness of			If Plated, state thickness.....		
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....		
Stringer Plate, breadth and thickness in Wells	51" .81-36" .39		If Plated, state thickness		
" " " " in way of Bridge	51 .36	1.14 at Bridge ends.	Poop Deck.		
" Angle in Wells	150 150 21		Stringer Plate, breadth and thickness	32" .32	
Thickness of Plating abreast Deck openings in way of Wells .....	.66-.40		Plating, Sheathing, material and thickness ...	.30	
Thickness of Plating abreast Deck openings in way of Bridge .....	.32		Bridge Deck.		
Thickness of Plating within line of openings...	.38		Stringer Plate, breadth and thickness.....	50 1/2 .41	
If Sheathed, material and thickness	2 1/2 O.P. in crew's quarters.		Plating, Sheathing, material and thickness ...	.32 2 1/2 O.P.	
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	45" .34		Stringer Plate, breadth and thickness.....	32 .32	
			Plating, Sheathing, material and thickness ...	.32	

SHELL PLATING.

SCANTLINGS.					RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.		
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	No		No. OF ROWS OF RIVETS.	RIVETS.	
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing or. to cr.		Diam.	Spacing or. to cr.
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.
FLAT PLATE KEEL	47	.66	.60	.60		2	7/8	3 1/2	3	7/8	2.8 Lapped
" DELG. (if any)		/				/			/		38 (see table)
BOTTOM PLATING, No. of Strakes ....3.....		.57	.57	.47		2	7/8	3 1/2 & 2	3	7/8	2 5/8 "
BILGE PLATING, No. of Strakes ..2.....		.57	.57	.47		2	"	"	3	"	" "
SIDE PLATING, No. of Strakes ..2.....		.57	.42	.47 & .42		2	"	"	3	"	" "
UPPER DECK, Sheer-strake in Wells.....	60	.84	.60	.47		2	1 & 7/8	3 1/2 & 3 1/2	4-3	1 & 7/8	4 & 3 1/2 "
UPPER DECK, Sheer-strake in Bridge ...		.57				2	7/8	3 1/2	3	7/8	3 1/2 "
STRAKE BELOW Sheer-strake in Wells.....			.69-.50			2	"	"	4-3	"	3 1/2 & 3 1/2 "
STRAKE BELOW Sheer-strake in Bridge ...	69	.57				2	"	"	3	"	3 1/2 "
POOP SIDE PLATING .....				.36		1	3/4	3	1	5/8	2 1/2 "
BRIDGE SIDE PLATING ...		.50				2	7/8	3 1/2	3	3/4	2 5/8 "
FORECASTLE SIDE PLATING			.38			1	3/4	3	1	"	" "

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c) 5.
 " Deck next below —
 As per Rule 5.

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks	101	26	4x3x34A	23x24	
" " " "	72	"	125x75x8A	18x27	
" " " "	56-7	"	"	28x30	
" " " "	101	34-36	5 1/2 x 3 x 32	IN WAY OF F.W. TANK	
" " " "	72	46-26	8x3x34	23x24	
" " " "	72	46-28	200x75x10 F	27x30	
" " " "	56	46-29	"	"	
" " " "	132	47-26	180x75x8A	24	SEMI BOX BEAM
" " " "	7-9	60-30	180x75x9-5	22	24" x 34" PLATE
" " " "			200x75x9-5		SEMI BOX BEAM
" " " "			18x33x24C		48x34 PLATE

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	/	/		
STEM	F.S.	8 1/2 x 2 1/2	Mitsubishi Nag.Wks.	
STERN FRAME { Propeller Post	C.S.	See approved plan.	"	
{ Rudder "				
RUDDER—A x D		310		
Speed of Vessel		10 1/2 knots.		
RUDDER mainpiece at head ...	F.S.	8 1/2	Mitsubishi Nag.Wks.	
" " heel ...		6 1/2		
" how constructed		Stream line.		
" double or single plate		Double .46		
" coupling, vertical or horizontal		Vertical		

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Imperial Steel Works. Yawata.

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

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.)

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

1st Bower	27 - 1 - 14	A.D.M.	1044	15-10-30
2nd "	27 - 1 - 14	"	1045	"
3rd "	27 - 0 - 14	"	1043	27-10-30
Stream	12 - 1 - 25	"	1041	13-10-30

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop **21.2** ft., R.Q.D. / ft., Bridge **72.5** ft., Forecastle **35.16** 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) **One dk (stl-pt w.s) 2nd dk stl. Nos. 2 & 3. Holds and Engine room.**

Official No. **413.**; Signal Letters **Q.C.N.P.** Is bottom of Vessel coated with cement. **Yes** if not give particulars of composition. **Fuel oil tanks not coated.** in way of Ballast tanks.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	47.5	151.4	Fore peak tank,	18.8	67.1
Double bottom, under Engines and Boilers,	—	—	After peak tank,	18.7	88.2
Double bottom, if under Engines only,	40.0	118.9	Deep tank, aft,	/	/
Double bottom, if under Boilers only,	—	—	Deep tank, forward,	/	/
Double bottom, forward,	132.5	330.7	Other tanks, if fitted Wing tanks P & S (14-39)	62.5	248.4
Total capacity of double bottom		601.00	(If necessary, furnish further information by sketch.)		(Total)

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

Order for Special Survey No. **97.**

Date **14th July 1930**
LONDON.

Dates of Surveys held while building

1930. Dec 15.17.22.
1931. Jan 5.7.14.16.21.23.24.27.30. Feb 3.5.7.9.12.13.17.18.20.23.25.28.
Mar 5.9.13.16.23.25.27.30 Apr 10.14.16.20.23 May 12.16.19.27.28.
June 5.15.19.22.23.24.27.30.

Total No. of Visits **51**