

STEEL STEAMER OR MOTORSHIP.

Received at London office

20 OCT 1952

Hull

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 11th September 1952 Port of YOKOHAMA No. 678
 Survey held at Yokosuka Date First Survey 28th May 1951 11th March 1952
 On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Single Screw Steamship "EIKEN MARU" machinery amidships.
 State Type (Full scantling, Complete Superstructure with or without Tonnage Openings) Full scantling. State Type of Erections Poop Bridge & Mast.
 Tonnage under 15921.406 CLASS 100 A1 State if with freeboard no Built at YOKOSUKA
 onnage Deck cubic metres as condition of Class no Launched 25th January 1952 Yard No. 637
 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) 128.00 Builders URAGA Dock Co. Ltd.
 Total - Breadth (greatest moulded) 17.80 Owners HACHIUMA KISEN K.K.
 ss Tonnage 6394.82 Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) 10.00 Managers -
 ister Tonnage 3674.29 1st Longitudinal Number (L x D) = Residence -
 2nd Numeral L x (B + D) = Port of Registry NISHINOMIYA
 Framing Depth "d," at middle of length. See Sec. 3 (1d) - If surveyed while building, afloat, or in dry dock yes; Undocked 4/3/52
 Proportions — Depth to Length — Uppermost continuous deck to top of keel -
 Do. Long Bridge to top of keel -
 Draught Moulded Design 7.950; Actual 7.942

FRAMES, DOUBLE BOTTOM AND BEAMS.

	M.M. IN SHIP.	Any Departure from Approved Plans to be Noted.	M.M. IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	800	✓	Bracket Floors, Frame	132 x 90 x 12 1.0.A.
" " from $\frac{3}{8}$ length amidships to Collision bulkhead	685	✓	" " Reversed Frame	150 x 90 x 9 1.0.A.
" " in peaks	610	✓	" " Vertical Struts	200 x 90 x 10 B.A.
SIDE FRAMING.			Centre Girder, depth and thickness amidships	1170 x 13
Frame Amidships, Angle, [or]	300 x 90 x 10 15.5 1.0.A.	✓	" " top Angles	welded
" " Extends up to	2 nd deck	✓	" " bottom Angles	direct
Reversed Frame Amidships, Angle	none	✓	Side Girders, No. each side and thickness	one; 9
" " Extends up to	-	✓	Margin Plate depth (excl. of flange) and thickness	940 x 13
Depth of Framing Girder	300	✓	" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem	100 x 12 FB
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	183.5 x 10 BP	✓	" " Vertical Angle to Tank side Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area	100 x 12 FB
" " Second 'tween Decks, Angle, [or]	200 x 11 BP under bridge	✓	" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem	450 x 12 continuous
" " Third " " "	-	✓	" " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area	450 x 12 continuous
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem	300 x 90 x 12 15.5 1.0.A.	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	2000 x 12
" " in peaks, Angle or [230 x 90 x 11 BA.	✓	INNER BOTTOM PLATING.	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	welded direct	✓	Breadth and thickness of Middle Line Strake	1400 x 13
State if Frame Joggled	no	✓	Thickness of remainder in Holds	11
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	yes	✓	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?	yes
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	yes	✓	BEAMS.	
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle, [or]	200 x 90 x 8 13.5 1.0.A.
Floors, Depth and thickness at mid-line in Holds			" " in way of Bridge, Angle, [or]	150 x 90 x 9 1.0.A.
Height of Brackets at side above base line at toe of frame			Spacing	every frame
Middle Line Keelson, on Floors, Angles, [or]			Second Deck, amidships, Angle, [or]	230 x 11 BP
" " Through Plate or Inter-costal Plate			Spacing	every frame
" " Foundation Plate on Floors			Third Deck, amidships, Angle, [or]	-
" " Flat Plate Keel Angles			Spacing	-
Side Keelsons, No. each side			Fourth Deck, amidships, Angle, [or]	-
" " thickness of Intercoastal Plate			Spacing	-
" " Angles			Poop Deck, Angle, [or]	125 x 75 x 10 1.0.A.
DOUBLE BOTTOM.			Spacing	every frame
Solid Floors, thickness and spacing	10.5 every 3 rd frame	✓	Bridge Deck, Angle, [or]	200 x 90 x 8 13.5 1.0.A.
" " Are Frame and Reversed Frame joggled?	no	✓	Spacing	every frame
Bracket Floors, breadth and thickness at middle line	900 x 10.5	✓	Forecastle Deck, Angle, [or]	150 x 90 x 12 1.0.A.
" " breadth and thickness at margin plate	900 x 10.5	✓	Spacing	every frame

PILLARS AND DECKS.

	mm IN SHIP.	Any Departure from Approved Plans to be Noted.	mm IN SHIP.	Any Departure from Approved Plans to be Noted.	Number of Certificate.	Length of Certificate.
PILLARS, No. of Rows	Two		Stringer Plate, breadth and thickness in way of Bridge	1700 x 7.5	2808	1st
" in 'tween Decks, Size and Spacing	rows widely spaced as approved		Thickness of Plating abreast Deck openings in way of Wells	9	2809	2nd
" " " " " "			Thickness of Plating abreast Deck openings in way of Bridge	7.5	2810	3rd
" in Holds " " " "			Thickness of Plating within line of openings	7.5	2811	Collec
Centre Line Bulkhead. Stiffeners and Spacing	none		If Sheathed, material and thickness	not sheathed	2812	Stre
Plating, thickness of			Third Deck.			
STRINGERS AND DECKS.			Stringer Plate, breadth and thickness			
Uppermost Continuous Deck.			If Plated, state thickness			
Stringer Plate, breadth and thickness in Wells	1600 x 28 & 21 aft		Fourth Deck.			
" " " " in way of Bridge	1600 x 28, 23 & 19.5 fwd		Stringer Plate, breadth and thickness			
" " " " Angle in Wells	1600 x 9.5		If Plated, state thickness			
Thickness of Plating abreast Deck openings in way of Wells	200 x 200 x 25		Poop Deck.			
Thickness of Plating abreast Deck openings in way of Bridge	150 x 150 x 25		Stringer Plate, breadth and thickness	7.5		
Thickness of Plating within line of openings	150 x 150 x 19		Plating, Sheathing, material and thickness	not sheathed		
If Sheathed, material and thickness	23 & 19 fwd		Bridge Deck.			
Second Deck.	23 & 21 aft		Stringer Plate, breadth and thickness	1800 x 14		
Stringer Plate, breadth and thickness in Wells	9		Plating, Sheathing, material and thickness	13.5 where exposed 11.5 elsewhere sheathed 6.5 mm Pine alongside house		
	9.5 (7.5 in bridge)		Forecastle Deck.			
	not sheathed		Stringer Plate, breadth and thickness	8 not sheathed.		
	1700 x 9.5		Plating, Sheathing, material and thickness			

SHELL PLATING.

SCANTLINGS.						RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	UPPER 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.								
Flat Plate Keel	1400	21	21	21		DR ✓	22	89				
„ Dblg. (if any)	-	-	-	-		-	-	-				
Bottom Plating, No. of Strakes	4	18	18	13	17.5 under bridge	DR ✓	22	89				
Bilge Plating, No. of Strakes	2	18	14	13	* 17.5 " "	DR ✓	22	89				
Side Plating, No. of Strakes	3	16.5	12	12.5	12.0 J * 15.5 " "	G & H welded J Double riv.	22	89				
Upper Deck, Sheer-strake in Wells	L 1600	21	12	12	34 & 23 at breaks	-	-	-				
Upper Deck, Sheer-strake in Bridge	L 2100	15.5	-	-		DR ✓	22	89				
Strake below Sheer-strake in Wells	K 1600	16.5	12	12		DR ✓	22	89				
Strake below Sheer-strake in Bridge	K 1540	15.5	-	-		DR ✓	22	89				
Poop side Plating	M N	-	-	9.5		SR ✓	19	76				
Bridge Side Plating	M	-	16.5	-		-	-	-				
Forecastle Side Plating	M N	-	10.5	-		SR ✓	19	76				

Electric welded

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	7
Extending to Upper Deck (Sec. 3c)	7
Deck next below	1
As per Rule	7

FORGINGS AND CASTINGS.

	Castings or Forgings.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	none			
STEM	C.S. As app. Builders			
STERN FRAME	do. do. do. S.P.M.I.			
Speed of Vessel	14 knots			
RUDDER—Type	Balanced reaction			
"	15.773 m ²			
" Diam. of head	F.S. 260 Builders			
" Mainpiece at top pintle	C.S. As app. do. Builders			
" " heel	C.S. do. do.			
" how constructed	Elec. welded			
" double or single plate	Double 12 & 30 mm			
" coupling, vertical or horizontal	Horizontal.			

STIFFENERS.

	Plating Thickness.	VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper 'tween decks No. 101	6.5 & 7	125 x 75 x 10 I.O.A.	815	-	-
" " Second " "					
" " Third " "					
" " Holds	8 to 13	250 x 90 x 11.5 I.O.A.	815		
COLLISION " (in Hold)	8 to 14	150 x 90 x 9 I.O.A.	640		
AFTER PEAK "	9 to 14	150 x 90 x 9 I.O.A.	800		

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) **Basin Open**
Heath
Yawata Iron & Steel Works; Nippon Steel Tube Co (Isurumi & Kawasaki)
 Has the Steel been tested as required by the Rules? **Yes**

[illegible][illegible]

Steering Gear, Type (Power or hand) Electric 14 HP Alternative Means Two lifeboats
Windlass none Steam Beats 9.50 x 2.8 x 1.15

Chains (Size and Test) _____

65 mm Pine on 65 mm battens ✓ Cargo Battens, thickness, material and spacing 50 Pine 230

Holds, thickness and material _____ 60 ✓

Hatchways - (Upper Deck) *None*

Hatchways No. 1 (Fwd) *10275 x 6400* No. 2 *13600 x 6400* No. 3 *7200 x 6400* No. 4 *11200 x 6400* No. 5 *11200 x 6400* No. 6 -

Builder's Signature K. Toyofuku
General Manager

QUESTION: It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel yes and (b) if it is not so fitted, whether it is intended as fuel or cargo should be so stated.

has been built under Special Survey in conformity with the Society's Rules and Regulations.

ations or additions to the original approved arrangements made during construction

by standards equivalent to the Rule requirements: the plans of the ship, and Deck showing the ship as built, now forwarded herewith, have been checked by the Bureau of Naval Construction.

bulbheads, tunnel, decks and watertight doors have been tested in accordance with the fire test required to insure full F.P. above 150°F. for ship's use in Nos. 1, 2

and auxiliary steering gear, and windlass have been tested under working conditions and satisfactory. The materials and workmanship are good.

Special Survey Fee £ : : Received by me, *We are* *I am of opinion the Vessel should be Classed * 100 A*

ate whether the Vessel has been built under Special Survey Yes Signature H. J. [illegible]
in Duplicate Surveyors to Lloyd's Register of Shipping.

Committee's Minute

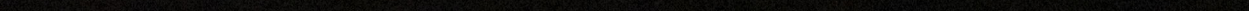
TUES. 11 NOV 1952

+100A1 Carrying oil F.P. above 150°F in deep tanks

Character assigned

Lloyds A & Co + LMC 3,52 Subject

White ~~Amers.~~ (m). 2 WT/3 285/b (Spt. 279/b).



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).

This vessel is also classed with NIPPON KAIJI KYOKAI

Freeboards have been assigned by the Japanese Government - Summer 2.068 metres to top of steel upper deck at side.

The following plans are forwarded herewith :-

AS BUILT

AS APPROVED

Midship Section
Profile & Decks
General Arrangement
Capacity Plan
Freeboard marks
Bilge Ballast & Oil piping

Rudder
Shell Expansion
Bulkheads aft
Stern Construction
Deep Tank.

Midship Section
Profile & Decks
Sternframe
Stern
Bow Construction
Double Bottom aft
Bulkheads forward

The following Forging and Casting Certificates are forwarded herewith :-
Stern, Sternframe, Rudder stock, Rudder frame & Tiller.

PARTICULARS OF ELECTRIC WELDING (if employed) All butts of keel and shell plating; Upper seams of G & H strakes of side shell plating; butts & seams of all decks; frames to shell (except bulk angle frames in peaks); all beams to decks; butts & seams of inner bottom plating except seams of middle line strake & margin plating; butts of margin plating; margin plates to shell; bulkhead plating including boundary connections; bulkhead stiffeners; solid floors to shell; bracket floor frames to shell and reversed frames to tank top.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book

E.S.D; pt. cem; pt. Elec. welded;

"Fitted for oil fuel FP above 150° F"

Carrying oil FP above 150° F in deep tanks aft"

RADAR Equipment (State if fitted not fitted)

State Type or Pattern No.

State } Maker
Name } and/or
of } Supplier

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

1st Bower	43	cwt	1	qr	0	lbs	KN	Y 2806	17/12/51
2nd "	42	cwt	3	qrs	23	lbs	KN	Y 2805	17/12/51
3rd "	43	cwt	1	qr	11	lbs	KN	Y 2806	17/12/51
Stream	19	cwt	3	qrs	14	lbs	KN	Y 2807	17/12/51

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 30.5 ft, R.Q.D. - ft, Bridge 131.2 ft, Forecastle 39.9 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

Official No. 68235

Signal Letters J H T T

Extreme Breadth over Belting -

Over all Length 447.7

No. and Material of Decks 2 ; steel.

Parts of Bottom of Vessel coated with cement or approved composition in way feed water and Distillation DB tanks in Boiler Rm.

Particulars of composition (if fitted) and of approval -

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284)
(Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted	Length.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
Double bottom, aft, FO or WB	112.9	349.0	Fore peak tank, FW or WB		133
Double bottom, under Engines and Boilers,	-	-	After peak tank, FW or WB		188
Double bottom, if under Engines only, FO or WB	26.2	127.1	Deep tanks aft, Cargo oil or WB	28.9	872
Double bottom, if under Boilers only, Feed & Dist	26.2	109.0	Deep tank, forward,	-	-
Double bottom, forward, FO or WB	190.8	805.2	Other tanks, if fitted, Wing tanks in BR	23.6	180
Total length (if continuous) and Capacity	356.1	1390.3	(If necessary furnish further information by sketch)		

Order for Special Survey No.

Date

Dates of Surveys held while building

T F N 1951 Oct 8, 20; Nov 5; Dec 3, 12, 14, 21, 26, 28; 1952 Jan 9, 18, 23, 25; Feb 13, 25, 28; Mar. 11th.
H T 1952 Jan 21; Feb. 27th.
K N 1951 May 28; Sept 6; Nov. 9, 30, Dec 5, 7, 10, 19th; 1952 Mar. 6th.

Total No. of Visits 28