

STEEL ~~STEAMER~~ MOTORSHIP.

Received at London Office 2 JUL 1929

State if Report has been sent on the Freeboard of the Vessel *yes*State if Report is sent on the Machinery of the Vessel *yes*

Date of completion of report 11.6.29

Port of Kobe

No. 6546

Survey held at Yama

Date First Survey 31 July 1928

Last Survey 3rd June 1929

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

steel twin screw motorship "HAKONESAN MARU"

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

full scantling

State Type of Erections P.B.F

TONNAGE under Tonnage Deck...

5921.94

CLASS 100 A.I.

State if with freeboard as condition of Class

No

Built at Yama

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 435

Launched 14-3-29 Yard No. 151

Builders Mitsui Bussan Kaisha

Owners Mitsui Bussan Kaisha

Total

5921.94

Breadth (greatest moulded)

B 56.5

Gross Tonnage

6643.70

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

D 33

Managers

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

Residence Kobe

Port of Registry Yokio

If surveyed while building, afloat, or in dry dock

Building

REGISTERED DIMENSIONS. FEET.

Length

437.6

Breadth

56.5

Depth

33

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

19.75

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

13.18

Do. Long Bridge to top of keel

10.67

Draught Moulded

26'-2"

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.
FRAMES, Spacing amidships	33		Bracket Floors, Frame	7 3/2 34	
" " from 1/2 length to Collision bulkhead	24		" " Reversed Frame	6 3 36	
" " in peaks	24		" " Vertical Struts	10 3 1/2 42	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	45 56	
Frame Amidships, Angle, E or C	12 3 1/2 46		" " top Angles	3 1/2 3 1/2 59	
" " Extends up to	2nd deck		" " bottom Angles	4 4 56	
Reversed Frame Amidships, Angle	- - -		Side Girders, No. each side and thickness	1 42	
" " Extends up to	- - -		Margin Plate depth (excl. of flange) and thickness	38 56	
Depth of Framing Girder	12		" " Vertical Angle to Tank side	3 1/2 3 1/2 44	
Frames in Uppermost Continuous 'tween Decks, Angle, E or C	8 3 1/2 46		" " Bracket abaft 1/2 len. from stem	5 5 44	
" " Second 'tween Decks, Angle, E or C	- - -		" " Vertical Angle to Tank side	5 5 44	
" " Third " " " " " "	3 1/2 3 40		" " Bracket forward 1/2 len. from stem	44 Con Plate	
Framing in Peaks, Angle, E or C	8 3 1/2 42		" " Gussets, spacing and scantling abaft 1/2 len. from stem	75 59	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 6 dia side plating 7 " bolt		Tank Side Brackets, height above base line at toe of Frame and thickness	75 59	
State if Frame Joggled	Yes		INNER BOTTOM PLATING.		
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	Deep frame 11 3 1/2 46 R.F. add. side stringer solid floor to bulkhead F.		Breadth and thickness of Middle Line Strake	60 52 44	
STRENGTHENING OF BOTTOM FORWARD. State Particulars			Thickness of remainder in Holds	46 54 in M. Rm.	
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?	Yes	
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 in Walls, Angle, E or C	7 9 3 1/2 52	
Middle Line Keelson, on Floors, Angles, E or C	- - -		" " in way of Bridge, Angle, E or C	8 3 1/2 40	
" " Through Plate or Intercoastal Plate	- - -		Spacing	33	
" " Foundation Plate on Floors	- - -		Second Deck, amidships, Angle, E or C	7 3 34	
" " Flat Plate Keel Angles	- - -		Spacing	33	
Side Keelsons, No. each side	- - -		Third Deck, amidships, Angle, E or C	- - -	
" " thickness of Intercoastal Plate	- - -		Spacing	- - -	
" " Angles	- - -		Fourth Deck, amidships, Angle, E or C	- - -	
DOUBLE BOTTOM.			Spacing	- - -	
Solid Floors, thickness and spacing	44 every 3rd F. 48 every F. in M. Rm.		Poop Deck, Angle, E or C	7 8 3 1/2 48	
" " Are Frame and Reversed Frame joggled?	No cut at seams		Spacing	48/33	
Bracket Floors, breadth and thickness at middle line	34 44		Bridge Deck, Angle, E or C	8 3 1/2 36	
" " breadth and thickness at margin plate	44 45 44		Spacing	33	
			Forecastle Deck, Angle, E or C	9 3 1/2 48	
			Spacing	48 -	

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..... <i>W.S.P. as per plan</i>					Stringer Plate, breadth and thickness in way of Bridge	<i>48</i>	<i>56</i>		
„ in 'tween Decks, Size and Spacing.....	-	-	-		Thickness of Plating abreast Deck openings in way of Wells	<i>36</i>	<i>32</i>		
„ „ „ „ „	-	-	-		Thickness of Plating abreast Deck openings in way of Bridge	<i>56</i>			
„ in Holds „ „	-	-	-		Thickness of Plating within line of openings...	<i>36</i>	<i>32</i>		
„ „ „ „ „	-	-	-		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	<i>60</i>	<i>96</i>	<i>1.44</i> <i>60 of B.</i>		If Plated, state thickness	-	-	-	
„ „ „ „ in way of Bridge	<i>39</i>	<i>40</i>			Poop Deck.				
„ Angle in Wells	<i>6</i>	<i>6</i>	<i>96</i>		Stringer Plate, breadth and thickness	<i>37</i>	<i>36</i>		
Thickness of Plating abreast Deck openings in way of Wells	<i>80</i>	<i>60</i>			Plating, Sheathing, material and thickness ...	<i>36</i>	<i>2" O.P. in way of Hig. Chambers</i>		
Thickness of Plating abreast Deck openings in way of Bridge	<i>40</i>				Bridge Deck.				
Thickness of Plating within line of openings...	<i>80</i>	<i>36</i>			Stringer Plate, breadth and thickness.....	<i>60</i>	<i>52</i>		
If Sheathed, material and thickness	-	-	-		Plating, Sheathing, material and thickness ...	<i>46</i>	<i>2" O.P. in way of accommodation</i>		
Second Deck.					Forecastle Deck.				
Stringer Plate, breadth and thickness in Wells...	<i>48</i>	<i>40</i>	<i>34</i>		Stringer Plate, breadth and thickness.....	<i>35</i>	<i>36</i>		
					Plating, Sheathing, material and thickness ...	<i>36</i>	-	-	

SHELL PLATING.

SCANTLINGS.					RIVETING. <i>amidships</i>								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. <i>No</i>			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	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	51	.84	.74	.74		Double	1	4 1/8"	<i>four</i>	1"	4	<i>Lapped</i>	
„ DBLG. (if any)	-	-	-	-		-	-	-	-	-	-	-	
BOTTOM PLATING, No. of Strakes <i>four</i>	64	.69	.49	.52		Double	7/8	3 5/8	<i>four</i>	7/8	3 1/2	<i>Lapped</i>	
BILGE PLATING, No. of Strakes <i>two</i>	60	.69	.49	.52		Double	7/8	3 5/8	<i>four</i>	7/8	3 1/2	"	
SIDE PLATING, No. of Strakes <i>four</i>	67/60	.68	.46	.50		Double	7/8	3 5/8	<i>three</i>	7/8	3 1/8	"	
UPPER DECK, Sheer-strake in Wells.....	51	.96				Double	7/8	3 5/8	<i>five</i>	1 1/8	5	"	
UPPER DECK, Sheer-strake in Bridge ...	51	.68	<i>Doubled at ends of bridge 38" x .82"</i>			Double	7/8	3 5/8	<i>three</i>	7/8	3 1/8	"	
STRAKE BELOW Sheer-strake in Wells.....	60	.82				Double	7/8	3 5/8	<i>four</i>	1	4	"	
STRAKE BELOW Sheer-strake in Bridge ...	60	.68				Double	7/8	3 5/8	<i>three</i>	7/8	3 1/8	"	
POOP SIDE PLATING40				Single	3/4	3	<i>two</i>	3/4	2 5/8	"	
BRIDGE SIDE PLATING60				Double	7/8	3 5/8	<i>three</i>	7/8	3 1/8	"	
FORE'C'TLE SIDE PLATING		.42				Single	3/4	3	<i>two</i>	3/4	2 5/8	"	

WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS.

WATERTIGHT BULKHEADS.				Casting or Forging.		Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
Total No. of W.T. BULKHEADS in Vessel—								
Extending to Upper Deck (Sec. 3 c) <i>Six</i>								
" Deck next below <i>one</i>								
As per Rule <i>Seven see Note letter of 21-4-24</i>								
				STIFFENERS.				
		Plating Thickness.						
			VERTICAL.	HORIZONTAL.				
			Scantlings Spacing.	Scantlings Spacing.				
MIDSHIP BULKHD, Upper tween decks		<i>28</i> <i>30</i> L <i>6 3/4 x 36</i>	<i>33</i>					
"	" Second "							
"	" Third "							
"	" Holds	<i>34</i> <i>46</i> L <i>11 3/4 x 50</i>	<i>33</i>	<i>36 x 42 Plate</i> <i>10 3/4 x 52 1 one</i>				
COLLISION	" (in Hold)	<i>26</i> <i>52</i> L <i>10 3/4 x 50</i>	<i>24</i>					
AFTER PEAK	"	<i>30</i> <i>52</i> L <i>11 3/4 x 54</i>	<i>24</i>					
				KEEL, Bar		<i>—</i>	<i>—</i>	<i>—</i>
				STEM		<i>Forging</i>	<i>10 x 2 5/8</i>	<i>M. B. K.</i>
				{ Propeller <i>Brackets</i> Rudder		<i>Casting</i>	<i>as per plan</i>	<i>Sumitomo S. S. Co.</i>
						<i>Casting</i>	<i>10 1/2 x 3 3/8</i>	<i>Nippon Seiko Co.</i> <i>Muroran</i>
				RUDDER—A x D		<i>638</i>		
				Speed of Vessel		<i>Under 15 knots</i>		
				RUDDER mainpiece at head ..		<i>Forging</i>	<i>12 1/4"</i>	<i>Muroran</i>
				" " heel ..		<i>"</i>	<i>9 1/4"</i>	<i>"</i>
				" how constructed		<i>Built</i>		
				" double or single plate ..		<i>Single</i>	<i>1-12"</i>	
				" coupling, vertical or horizontal		<i>Vertical</i>	<i>31" x 34"</i>	<i>Muroran</i>

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Soc. An. des Hauts-Fourneaux*
Forges & Acieries de Denain & d'Anzin Denain (Nord France), Dorman Long Soc. An. Moines
Metallurgiques du Hainaut at Conillet, Soc. An. de Acieries d'Angeles & de Chambronnages Belges
Yes Has the Steel been tested as required by the Rules? *Tulleur. D. Couille & Sons, SA J. Cockrell, Vereinigte Stahlwerke*
A. G. August Thyssen Hamburg, Bolckow-Vaughan & Co Southbank, Cargo Fleet I. Works. Yawata Sh. Works.
Kawasaki S. Works. Nippon Kokuken K.K.

EQUIPMENT No. 40400										LETTER a†		ANCHORS. 3B 1S			
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.
61350	1st Bower ...	73	2	14	-	-	-	55	10	0	0	68	Sykes Britannia	Sykes & Co. Ltd.	Sykes 19.7.28 W.A.D.
61360	2nd „ ...	72	3	0	-	-	-	55	0	0	0		"	"	" 23.7.28 "
61359	3rd „ ...	62	1	0	-	-	-	49	12	2	0		"	"	" 23.7.28 "
	Collective weight.	208	2	14								194.5			
61358	Stream	19	1	14	4	3	7	20	4	0	7	19	Ordinary W.1	"	" 21.7.28 "

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.	Statu-tory.	Break-ing.	Supplied.	Per Rule.		Length. Diam.					Length. Cir.	Length. Cir.	Length. Cir.	
1597	272 2 3/8	161.5	142.1	809.2-26	720.75		270 2 3/8	Syke & Co. Ltd.	Ordinary Chain Works	Waka 5.12.28 Y.6	TOWLINE	120 5 1/4	120 5 1/4	120 5 1/4	
											HAWSERS & WARPS	120 8	120 8	120 8	
											"	120 8	120 8	120 8	
											"	120 7	120 7	120 7	
											"	120 7	120 7	120 7	
Iron Stream Chain or Steel Wire	120 5						90 5								

Steering Gear, *Electric Hydraulic by J. Hastie & Co* Steering Gear, Hand *J. Hastie & Co*
One Zenma 18.6' x 5.1' x 1.8'
Boats *W. 26' x 8' x 3' 4 One 19' x 5' x 2'* Steering Chains, Size and Test *✓* Windlass *Clarke Chapman & Co*
No Battens in Deck Tanks
Ceiling in Holds, thickness and material *2 1/2" O. PINE on 2" battens* Cargo Battens, thickness, material and spacing *6' x 2" O. PINE 15' centres*
Cargo Hatchways. (Upper Deck) *Ends & Sides .44* Thickness of Hatches *2 1/2"*
Size of No. 1 Hatchway (Forward) *31.5' x 22'* No. 2 *27.5' x 22'* No. 3 *30.25' x 22'* No. 4 *16.5' x 22'* No. 5 *30.25' x 22'* No. 6 *27.5' x 22'*
Number of Shifting Beams and/or Fore and Afters *Hatch 1 (5) Hatch 2 (4) Hatch 3 (5) Hatch 4 (2) Hatch 5 (5) Hatch 6 (4)*

Builder's Signature *J. Hastie*

GENERAL DECLARATION

This vessel has been built under special survey in accordance with the Rules & approved plans. The material & workmanship employed are good.
The requirements of Sect. 20 of the Rules for oil fuel F.P. above 150° have been complied with.
In our opinion the vessel is now entitled to the notation fitted for oil fuel 6.29 F.P. above 150°, pt. com. Lloyds A & P.C. Wireless & Electric Light in the Register Book

The amount of Entry Fee *£110 : - :* Fees applied for, *183 June 1929*
Special Survey Fee *£6072 : - :* Received by me, *28.10.29*
Freeboard £160
Travelling Expenses, if any *£302 : - :*
Including London cables & machy. *Yes*
State whether the Vessel has been built under Special Survey *Yes*
Certificate to be sent to *Kbe* Date of issue *16/7/29*

I am of opinion the Vessel should be Classed **100A.1.*
Signature *L. Kimber. & A. Webb*
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI. 5 JUL 1929*
Character assigned *100A.1*

Lloyds' ascp. + June 6.29 Oil Engines
CL DB-10016

Engines
wire Cyls



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Lloyd's Register
Foundation

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.)

Sister vessel Kobe Report No 6368 M.S. "HAKUBASAN MARU"

Plans:— Midship Section.

Construction profile of deck.

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

1st Bower	45-0-16	N.B.	3823	15-6-28
2nd "	45-0-9	N.B.	3412	30-5-28
3rd "	34-0-10	N.B.	3426	30-5-28

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 31 ft., R.Q.D. ✓ ft., Bridge 121 ft., Forecastle 33.75 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) 2 Dks (SIL)

Intermediate 'tween dk. B.H. in forward hold dispensed with. 6 B.H. to upper dk. 1 B.H. to 2nd dk.

Official No. 34431 ; Signal Letters T.S.G.K.

Is bottom of Vessel coated with cement ^{fresh water tanks & bilge only} if not give

particulars of composition

PARTICULARS OF WATER BALLAST.—

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	140.25	515	Fore peak tank,	20.5	103
Double bottom, under Engines and Boilers,			After peak tank,	19	182.5
Double bottom, if under Engines only,	24.5	123	Deep tank, Port Port	30.25	512.5
Double bottom, if under Boilers only,			Deep tank, Starboard Starboard	30.25	512.5
Double bottom, forward,	205.5	716.5	Other tanks, if fitted, Wing Tanks (p 45)	24.5	95.3
Total capacity of double bottom		1354.5	(If necessary, furnish further information by sketch.)		

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

Order for Special Survey No. 24

Date 1st June 1927

Dates of Surveys held while building

1928 July 31 Aug 6. 13. 22. 28. Sept 4. 10. 17. Oct. 11. 15. 23. 31. Nov. 2. 5. 15. 19. 20. 27.
Dec. 4. 12. 21. 24. 1929 Jan. 8. 14. 15. 22. Feb. 1. 7. 13. 20. 25. March 13. 14. 26
April 1. 11. 16. 23. May 2. 17. 23. 24. 30. June 3

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Total No. of Visits 44