

STEEL STEAMER or MOTORSHIP.

Received at London Office

6368

8 JAN 1929

State if Report has been sent on the Freeboard of the Vessel YESState if Report is sent on the Machinery of the Vessel YES

Date of completion of report

22nd Dec 1928.

Port of

Kobe

No.

Survey held at

Sama

Date First Survey

9th March 1928

Last Survey

6th December

1928

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

Steel Twin Screw Motorship "HAKUBASAN MARU"

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

Full Scantling

State Type of Erections B.P.F.

TONNAGE under Tonnage Deck...

5922

CLASS 100 A.I.State if with freeboard as condition of Class NoBuilt at Sama

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Length from fore part of stem to after part of stern

L 435.0

Breadth (greatest moulded)

B 56.5

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

D 33.0

Total

5922

Gross Tonnage

6651

Register Tonnage

4071

1st Longitudinal Number (L x D) = 14355

2nd Numeral L x (B + D) = 38932.5

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

14.75

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"

Managers

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

Residence Kobe

Port of Registry

Sokio

If surveyed while building, afloat, or in dry dock

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.
FRAMES, Spacing amidships	33				Bracket Floors, Frame	7	3 1/2	34	
" " from 1/2 length to Collision bulkhead	27				" " Reversed Frame	6	3	36	
" " in peaks	24				" " Vertical Struts	6	3	36	
DE FRAMING.					" " Vertical Struts	10	3 1/2	42	
Frame Amidships, Angle, E or C	12	3 1/2	46		Centre Girder, depth and thickness amidships	45	56		
" " Extends up to	2 nd DK.				" " top Angles	3 1/2	3 1/2	50	1/54
Reversed Frame Amidships, Angle	-	-	-		" " bottom Angles	4	4	56	1/60
" " Extends up to	-	-	-		Side Girders, No. each side and thickness	1	42		
Depth of Framing Girder	12				Margin Plate depth (excl. of flange) and thickness	38	56		
Frames in Uppermost Continuous 'tween Decks, Angle, E or C	8	3 1/2	46		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	3 1/2	3 1/2	44	
" " Second 'tween Decks, Angle, E or C	-	-	-		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	5	5	44	
" " Third " " L. RF. AFTER PEAK	3 1/2	3	40		" " Gussets, spacing and scantling abaft 1/2 len. from stem	Continuous Plt.			
Framing in Peaks, Angle, E or C FORE PEAK	8	3 1/2	42		" " Gussets, spacing and scantling forward 1/2 len. from stem	"	"	"	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8	6 D/A Side	7 D/A Bot.		Tank Side Brackets, height above base line at toe of Frame and thickness	75"	48	50	
State if Frame Joggled	YES				INNER BOTTOM PLATING.				
EP FRAMES	11	3 1/2	46		Breadth and thickness of Middle Line Strake	60	52	44	
STIFFENING ARRANGEMENTS (Sec. 7), state system and particulars	6	3 1/2	46	RF.	Thickness of remainder in Holds	40	54	ER	
LENGTHENING OF BOTTOM FORWARD. State Particulars					Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bankers and Boiler Room?	YES			
DOUBLE BOTTOM.					BEAMS.				
Floors, Depth and thickness at mid-line in Holds	-	-	-		Uppermost Continuous Deck, amidships in Wells, Angle, E or C	7	3 1/2	40	1/52
Height of Brackets at side above base line at toe of frame	-	-	-		" " in way of Bridge, Angle, E or C	8	3 1/2	40	
Middle Line Keelson, on Floors, Angles, E or C	-	-	-		Spacing	33			
" " Through Plate or Intercoastal Plate	-	-	-		Second Deck, amidships, Angle, E or C	7	3	34	
" " Foundation Plate on Floors	-	-	-		Spacing	33			
" " Flat Plate Keel Angles	-	-	-		Third Deck, amidships, Angle, E or C	-	-	-	
Double Keelsons, No. each side	-	-	-		Spacing	-	-	-	
" thickness of Intercoastal Plate	-	-	-		Fourth Deck, amidships, Angle, E or C	-	-	-	
" Angles	-	-	-		Spacing	-	-	-	
DOUBLE BOTTOM.					Poop Deck, Angle, E or C	7	3 1/2	48	
Mid Floors, thickness and spacing	44	even 34 F	ER		Spacing	48	33		
" Are Frame and Reversed Frame joggled?	No.				Bridge Deck, Angle, E or C	8	3 1/2	36	
Bracket Floors, breadth and thickness at middle line	34	44			Spacing	33			
" breadth and thickness at margin plate	48	44			Forecastle Deck, Angle, E or C	9	3 1/2	48	
					Spacing	48			

PILLARS AND DECKS.

PILLARS, No. of Rows..	INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.
W.S.P. 20 feet plan.									
in 'tween Decks, Size and Spacing.....	-	-	-						
" " " " "	-	-	-						
" " " " "	-	-	-						
in Holds " "	-	-	-						
" " " " "	-	-	-						
Centre Line Bulkhead.									
Stiffeners and Spacing.....	-	-	-						
Plating, thickness of	-	-	-						
STRINGERS AND DECKS.									
Uppermost Continuous Deck.									
Stringer Plate, breadth and thickness in Wells	60	196	1.44	2 ENDS OF B.					
" " " " in way of Bridge	39	140							
" Angle in Wells	6	6	196						
Thickness of Plating abreast Deck openings in way of Wells	160								
Thickness of Plating abreast Deck openings in way of Bridge	140								
Thickness of Plating within line of openings...	160								
If Sheathed, material and thickness	-	-	-						
Second Deck.									
Stringer Plate, breadth and thickness in Wells...	48	140	1.34						
Stringer Plate, breadth and thickness in way of Bridge	48	156							
Thickness of Plating abreast Deck openings in way of Wells	36								
Thickness of Plating abreast Deck openings in way of Bridge	56								
Thickness of Plating within line of openings...	32								
If Sheathed, material and thickness	-	-	-						
Third Deck.									
Stringer Plate, breadth and thickness.....	-	-	-						
If Plated, state thickness.....	-	-	-						
Fourth Deck.									
Stringer Plate, breadth and thickness.....	-	-	-						
If Plated, state thickness	-	-	-						
Poop Deck.									
Stringer Plate, breadth and thickness	37	136							
Plating, Sheathing, material and thickness	36								
Bridge Deck.									
Stringer Plate, breadth and thickness.....	60	152							
Plating, Sheathing, material and thickness	46								
Forecastle Deck.									
Stringer Plate, breadth and thickness.....	35	136							
Plating, Sheathing, material and thickness	-	-	-						

SHELL PLATING.

SCANTLINGS.					RIVETING. amidship.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.	No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.					Diam.	Spacing or to cr.		
	Inches.	Inches.	Inches.	Inches.			Inches.		Inches.	Inches.		
FLAT PLATE KEEL	51	184	174	174		Double	1	48	Four	1	4	Lapped.
" DBLG. (if any)	-	-	-	-		-	-	-	-	-	-	-
BOTTOM PLATING, No. of Strakes F.V.R....	64	69	149	152		Double	7/8	35/8	Four	7/8	3 1/2	Lapped
BILGE PLATING, No. of Strakes T.V.R....	60	69	149	152		"	"	"	"	"	3 1/2	"
SIDE PLATING, No. of Strakes F.V.R....	60	68	146	150		"	"	"	Three	"	3 1/8	"
UPPER DECK, Sheer-strake in Wells.....	51	196				"	"	"	Five	1 1/8	5	"
UPPER DECK, Sheer-strake in Bridge ...	51	168	Doubling @ ends of B. 33x82"			"	"	"	Three	7/8	3 1/8	"
STRAKE BELOW Sheer-strake in Wells.....	60	182				"	"	"	Four	1"	4	"
STRAKE BELOW Sheer-strake in Bridge ...	60	168				"	"	"	Three	7/8	3 1/8	"
POOP SIDE PLATING		140				Single	3/4	3	Two	3/4	2 5/8	"
BRIDGE SIDE PLATING ...		160				Double	7/8	35/8	Three	7/8	3 1/8	"
FORECASTLE SIDE PLATING		142				Single	3/4	3	Two	3/4	2 5/8	"

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—					
Extending to Upper Deck (Sec. 3 c)..... Six					
" Deck next below..... One					
As per Rule. Seven see Kobe letter dated 21-4-27					
	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks	128	6 3/4	36	33	-
" " Second "	30	-	-	-	-
" " Third "	-	-	-	-	-
" " Holds (deep tanks)	34	11 3/4	50	33	36 x 42 plates 10 3/4 x 52 one
COLLISION " (in Hold)	30	10 3/4	50	24	
AFTER PEAK " "	34	11 3/4	54	24	

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar				
STEM	Forging	10 x 25/8	Mitsui B.K.	
STERN FRAME { Propeller Post	Castings	cooper plan	Sumitomo S.F. Works	
{ Rudder "	Castings	10 1/2 x 3-3/8	NIPPON SEIKOSHO MURORAN.	
RUDDER—A x D.....	638			
Speed of Vessel.....	Under 15 Kts.			
RUDDER mainpiece at head ...	Forging	12 1/4	MURORAN.	
" " heel ...	"	9 1/4		
" how constructed	Built			
" double or single plate	Single	1 1/2		
" coupling, vertical or horizontal	Vertical	31" x 34"	MURORAN.	

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 et Acieries de Denain & d'Anzin Denain (Nord-France) Dormann Long, Soc An Usines Metallurgiques du Hautmont at Conillet, Soc de Acieries d'Angoulême & de Charente Maritimes Belges, Tillemans & Co, S.A. Cockerill, Vereinigte Stahlwerke, Has the Steel been tested as required by the Rules? Yes. A.G. August Thyssen Lumberg, Bolckow Vaughan & Co South Wales, Cargo Fleet Works, Yawata Steel Works, Kawasaki Steel Works, Nippon Kokan K.K.

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.				
42999	1st Bower ...	75	-	-	-	-	-	56	5	0	0	Cwts. 68	Britannic	R Sykes & Sons	Radley H. 10-8-27 L.P.
61153	2nd " ...	69	2	-	-	-	-	53	10	0	0		"	"	Lipton 12-5-28 W.A.D.
61151	3rd " ...	64	0	21	-	-	-	50	12	2	0		"	"	" 11-5-28 W.A.D.
	Collective weight.	208	2	21								194.5 ✓			
89942	Stream	19	1	9	5	0	3	20	4	0	7	19	"	" -	Wetherston 2-5-28 H.S.

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.	Cir.		Length.	Cir.
1586	Fathoms.	Ins.	Tons.	Tons.	Cwts. qrs. lbs.	Cwts.	Fathoms.	Ins.	Steel Link	Osaka Ch Wks	Osaka, 21-8-28	TOWLINE ...	Fathoms	Ins.	Tons.	Fathoms	Ins.
	272.5	23 1/2	101.5	142.1	811 - 1 - 20	720.75	270	25 1/8			6-9-28, 7-9-28	HAWSEERS & WARPS	120	5 1/2	83.82	120	5 1/2
											No.	"	120	8	-	90	8
Iron Stream Chain or Steel Wire	120	Cir. 5		81.53			90	Cir. 5			H.P.B. 15-10-28	"	120	7		90	7
											CERT N° 1585.	"	120	7		90	7

Steering Gear, Steam *Electric-Hydraulic by J. Hustie & Co*

Steering Gear, Hand *J. Lusk & Co*

One Terra 18.65' x ^{5.0}5.0' x 1.66'

Boats Two 26' x 8' x 3.4' One 10.1' x 5' x 2' Steering Chains, Size and Test.

Windlass *Clarke Chapman & Co*

Ceiling in Holds, thickness and material *2 1/2" O.P. on 2" battens*

Cargo Battens, thickness, material and spacing 6" x 2" O.P. - centres.

Cargo Hatchways.—(Upper Deck) *Ends & sides .44*

Thickness of Hatches $2\frac{1}{2}"$

Size of No. 1 Hatchway (Forward) 31.5 x 22.0 No. 2 27.5 - 22.0 No. 3 30.25 - 22.0 No. 4 16.5 - 22.0 No. 5 30.25 - 22.0 No. 6 27.5 - 22.0

Number of **Shifting Beams** ~~and/or Fore and Afters~~ (1) five (2) four (3) five (4) two (5) five (6) four (7) five

Builder's Signature

GENERAL DECLARATION

GENERAL DECLARATION This vessel has been built under special survey in accordance with the Rules & approved plans. The materials & workmanship employed are good. The requirements of Sect. 35 of the Rules for oil fuel F.P. above 150° have been complied with.

In my opinion the vessel is now entitled to the notation fitted for oil fuel 12-28 F.P. above 150° pt. cen. Lloyd's A.C.P. Wireless & Electric Light in the Register Book.

The amount of Entry Fee ~~₹~~ 106 :-

Freeboard 150

Special Survey Fee.... **¥5,844-** :

Travelling Expenses, if any *& cable charges* 325-

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

Certificate to be sent to W. J. K. Thompson

Date of issue 25/1/29 of advice

Fees applied for,

14th Dec 1928

Received by me,

23. 4. 1929

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

Signature W. Kimber T. K. Garnett

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 15 JAN 1929

Character assigned

7 100777

+ LMC 12:28 Oil Engines

Lloyd's A & CP

AB 100 lb

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 now on stocks.
PLANS:— Midship section.
Construction Profile & Decks.
General arrangement.

Forging & Casting certificates:—
Stem Frame.
Shaft Brackets.
Rudder & arms.

Note:— The advice notes for the steel used are held back for use upon M.B.K. No 151 now building.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	45-2-4	N.B.	2890	15-7-26.
	2nd "	41-3-16	K.H.	5258	13-4-28.
	3rd "	40-2-25	K.H.	5260	13-4-28.

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 (s/l) Intermediate Tween dk. 13H in forward hold dispensed with 6 B.H. to upper DK 1 B.H. to 2nd DK.
Official No. 34004 ; Signal Letters T.G.K.W. Is bottom of Vessel coated with cement FRESH WATER TANK not g
particulars of composition ✓

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length.		Water Capacity.	Where Fitted.	*Length.		Water Ca
	Feet.	Tons.			Feet.	Tons.	
Double bottom, aft,	140.25	515	✓	Fore peak tank,	20.5	10.	✓
Double bottom, under Engines and Boilers,	✓	✓	✓	After peak tank,	19	18.	✓
Double bottom, if under Engines only,	27.5	123	✓	Deep tank, aft, PORT	30.25	512	✓
Double bottom, if under Boilers only,	✓	✓	✓	Deep tank, forward, STARBOARD	30.25	512	✓
Double bottom, forward,	205.5	716.5	✓	Other tanks, if fitted, WING TANKS (PORT & STARBOARD)	27.5	9.	✓
Total capacity of double bottom			1354.5	(If necessary, furnish further information by sketch.)			

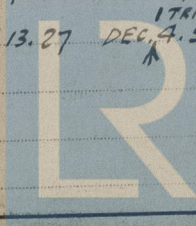
* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 23

Date 1st June 1927

Dates of Surveys held while building

1928. MAR. 9. 14. 20. 27. APRIL 5. 25. MAY. 1. 8. 17. 23. 30. JUNE. 7. 12. 19. 26. JULY. 4. 9. 13. 19. 24. 31. AUG. 6. 13. 20. 27. SEPT. 4. 10. 17. 21. 24. OCT. 11. 15. 23. 31. NOV. 2. 5. 13. 27. DEC. 4. 5. 6.



Lloyd's Register Foundation
Total No. of Visits 42