

STEEL STEAMER or MOTORSHIP.

Received at London Office - 4 DEC. 1929.

State if Report has been sent on the Foreboard of the Vessel *no, not assigned by us.*State if Report is sent on the Machinery of the Vessel *Yes*Date of completion of report *11.9.29*Port of *Kobe*No. *6658*Survey held at *Yama*Date First Survey *14.3.29*Last Survey *31 - 8**1929*On the (State if Machinery fitted with or without Tonnage Deck) *steel single screw motorship "KONSAN MARU"*State Type (Full Scantling, Complete or Structural with or without Tonnage Deck) *Full Scantling* State Type of Erections *P.B.F.*TONNAGE under Tonnage Deck... *2248.13*CLASS *+100A1*State if with foreboard as condition of Class *no*Built at *Yama*

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

Length from fore part of stem to after part of stern post on steamer L.W.L. See Sec. 3 (10)

L *325*Launched *12.7.29* Yard No. *161*Total *2248.13*

Breadth (greatest moulded)

B *46.5*Builders *Mitsui Bussan Kaisha*Gross Tonnage *2733.3*

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (11)

D *21.5*Owners *Dairen Kisen Kaisha*Register Tonnage *1556.08*1st Longitudinal Number L x D *6984.5*

Managers (If not stated, to be entered in Reg. Book)

2nd Numerical L x (B + D) *22100*

Residence

REGISTERED DIMENSIONS.

Framing Depth "d" at middle of length. See Sec. 3 (12)

*18'-5"*Port of Registry *Dairen*Length *326.5*

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

15/12

If surveyed while building, afloat, or in dry dock

Breadth *46.5'*

Do. Long bridge to top of keel

*11/11**Building*Depth *21.5'*Draught Moulded *17'-9.14"*

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SIDE	Any Departure from Approved Plans to be noted.		INCHES IN SIDE	Any Departure from Approved Plans to be noted.
AMES, SPACING amidships	30		Bracket Floors, Frame	7 8 3 .44	
" " from 1 length to Collision bulkhead	27		" " Reversed Frame	7 8 3 .34	
" " in peaks	24		" " Vertical Stems	7 8 3 .34	
FRAMING.			Centre Girder, depth and thickness amidships	37 .46	
Frame Amidships, Angle E or F	9 3 1/2 .46		" " top Angles	3 3 .42/44	
" " Extends up to	Upper Deck		" " bottom Angles	3 1/2 3 1/2 .48/50	
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	one .34	
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	27 .44	
Depth of Framing Girder	B.A. 9		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	3 3 .42	
Frames in Uppermost Continuous Tween Decks, Angle, E or F			" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	5 5 .40	
" " Second Tween Decks, Angle, E or F			" " Gussets, spacing and scantling abaft 1/2 len. from stem	EVERY 3 RD FRAME 5 5 .48	
" " Third			" " Gussets, spacing and scantling forward 1/2 len. from stem	EVERY 2 ND FRAME 6 6 .62	
Framing in Peaks, Angle	6 3 .34		Tank Side Brackets, height above base line at toe of Frame and thickness	52 .42/40	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4 6 1/2 dia. apart		INNER BOTTOM PLATING.		
State if Frame Joggled	Yes		Breadth and thickness of Middle Line Strake	66 .44/36	
STIFFENING ARRANGEMENTS (Sec. 7), state system and particulars	DEEP FRAMES 5 11 3 1/2 .48		Thickness of remainder in Holds	36/40	
LENGTHENING OF BOTTOM FORWARD. State Particulars	SOLID FLOOR EVERY FRAME		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?	1/2	
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships in Wells, Angle, E or F	6 3 1/2 .34/46	
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, E or F	7 3 .34	
Midle Line Keelson, on Floors, Angles, E or F			Spacing	30	
" " Through Plate or Intercoastal Plate			Second Deck, amidships, Angle, E or F		
" " Foundation Plate on Floors			Spacing		
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, E or F		
Keelsons, No. each side			Spacing		
" " thickness of Intercoastal Plate			Fourth Deck, amidships, Angle, E or F		
" " Angles			Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle, E or F	7 8 3 .34	
Solid Floors, thickness and spacing	34 Every 3 RD FRAME		Spacing	30/24	
" " Are Frame and Reversed Frame joggled?	NO CUT AT SEAMS		Bridge Deck, Angle, E or F	7 3 .34	
Bracket Floors, breadth and thickness at middle line	28 .38		Spacing	30	
" " breadth and thickness at margin plate	30 .38		Forecastle Deck, Angle, E or F	6 8 .3 .34/36	
			Spacing	27/24	

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.....	AS PER PLAN				
" in 'tween Decks, Size and Spacing....	/		Stringer Plate, breadth and thickness in way of Bridge	/	
" " " " "	/		Thickness of Plating abreast Deck openings) in way of Wells	/	
" " " " "	/		Thickness of Plating abreast Deck openings) in way of Bridge	/	
" in Holds " " "	/		Thickness of Plating within line of openings... ..	/	
" " " " "	/		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	48 .54 / 74		If Plated, state thickness	/	
" " " " in way of Bridge	72 / 78 .34 / 11.04		Poop Deck.		
" Angle in Wells	6 6 .74		Stringer Plate, breadth and thickness	30 32	
Thickness of Plating abreast Deck openings) in way of Wells54 / 74		Plating, Sheathing, material and thickness	32	
Thickness of Plating abreast Deck openings) in way of Bridge	30		Bridge Deck.		
Thickness of Plating within line of openings... ..	.40		Stringer Plate, breadth and thickness.....	48 .42	
If Sheathed, material and thickness	/		Plating, Sheathing, material and thickness	32 / 40 O.P. 2"	IN WAY OF ACCOMMODATION
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells..	/		Stringer Plate, breadth and thickness	30 32	
			Plating, Sheathing, material and thickness	32	

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?	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.			SINGLE OR DOUBLE.	Diam.		Spacing or to cr.	Diam.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.	
FLAT PLATE KEEL	60	.66	.58	.58		Double	7/8	3 1/2	Three	7/8	3 1/2	Lapped
" DBLG. (if any)	-	-	-	-		-	-	-	-	-	-	-
BOTTOM PLATING, No. of Strakes ... 3	60	60	.54	.50		Double	7/8	3 1/2	Three	7/8	3 1/2	Lapped
BILGE PLATING, No. of Strakes 1	60	60	.46	.48		"	"	"	"	"	"	"
SIDE PLATING, No. of Strakes 2	60	.58	.42	.42		"	"	"	"	"	"	"
UPPER DECK, Sheer-strake in Wells	48	.56/.90	.58 DOUBLING AT BRIDGE ENDS			"	7/8	3 1/2	Two	1	4 1/2	"
UPPER DECK, Sheer-strake in Bridge ...	48	.58/.90	(.42) (.42) AT ENDS OF VESSEL AS			"	DOUBLING @ B. ENDS 7/8	3 1/2	Three	7/8	3 1/2	STRAPPED & LAPPED
STRAKE BELOW SHEER-strake in Wells	60	.56/.42	APPROVED FOR "SENSAN MARU"			"	7/8	3 1/2	Four	1	4	LAPPED
STRAKE BELOW SHEER-strake in Bridge ...	60	.58/.42	(.42) (.42)			"	"	"	Three	7/8	3 1/2	"
POOF SIDE PLATING			34			Single	3/4	3	Two	3/4	2 5/8	"
BRIDGE SIDE PLATING48				D. @ ENDS } Single	"	"	Three	"	"	"
FORE'C'TLE SIDE PLATING			.38			Single	"	"	Two	"	"	"

Total No. of W.T. BULKHEADS in Vessel—	
Extending to Upper Deck (Sec. 3 c)	<i>Five</i>
“ Deck next below	
As per Rule.	<i>Five</i>

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar				
STEM	Forging	$2\frac{1}{2} \times 8$	Koke Stk. Wks.	
STERN FRAME {	Propeller Post	Casting	Special Shape as per plan	Sigsbourn Stk. Wks.
	Rudder ..	"		
RUDDER—A x D		248 x 34		
Speed of Vessel		12 knots		
RUDDER mainpiece at head ..	Forging	8"	Sigsbourn Stk. Wks.	
" " heel ..	Casting	Special Shape as per plan		
" how constructed	Built			
" double or single plate ..	Double			
" 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) *Open Hearth*
Kawasaki Sh. Yd. Asano Sh. Yd. Carrs Nut & Iron Co. Peace & Partnership Dorman Long & Co.
Bolckow Vaughan & Co. Ltd. United Steel & Wire Mills Ltd. Telford & Co. Ltd. K. K. Imperial M. Works, Yawata
Has the Steel been tested as required by the Rules? *Yes*

EQUIPMENT No. 25,000										LETTER U		ANCHORS. 3 B 1 S			
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.			
61333	1st Bower ...	45	3	10	-	-	-	39	15	3	21	45	Atlantici	R. S. & Son	Hydon 11-7-28 N.A.D.
61292	2nd " ...	45	3	-	-	-	-	39	14	1	14	45	"	"	" 26-6-28 "
61421	3rd " ...	40	1	-	-	-	-	35	18	3	-	45	"	"	" 14-8-28 "
	Collective weight.	131	3	10								128			
43899	Stream	11	3	22	3	0	26	13	14	2	-	12	Ordinary H. 1.	"	C. Heath 21-8-28 L.Y.F.

HAWSERS AND WARPS.

Number of Certificate.	Length and size supplied.		Tons per Certificate.		WRIGHT OF CHAIN CABLE.				Length and Size per Table 63.		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 63.	
	Length.	Diam.	Tons.	Tons.	Supplied.	Per Cwt.	Length.	Diam.	Length.	Ins.					Length.	Ins.		Length.	Ins.
1643	242	1 5/8	64.5	94.5	531.1	1.15	511.5	240	1 5/8	Sgt. Link	Oriskany Works	Wake 6.29 V.J.	2150 TOWLINE	120	4	60.1	100	4	
2136A Spiral Steel Wire	90	4 1/2	-	54.4	-	-	-	90	4 1/2				HAWSEY & WARPS	90	4		90	4	
													"	90	4		90	4	
													"	90	6		90	6	
													"	90	6		90	6	

Steering Gear, ~~Steam~~ *Hydro-electric (Hasties)* Steering Gear, ~~Hand~~ *Hasties*

Boats *2 lifeboats 1 Tenna* Steering Chains, Size and Test *-* Windlass *Clarke Chapman*

Ceiling in Holds, thickness and material 2 1/2" O.P. Cargo Battens, thickness, material and spacing none

Cargo Hatchways.—(Upper Deck) Sides '54" Ends '44" Thickness of Hatches 3", 2¾", 2½"

Size of No. 1 Hatchway (Forward) $33'-9'' \times 21'-0''$ No. 2 $34'-6'' \times 21'-0''$ No. 3 $34'-6'' \times 21'-0''$ No. 4 $35'-0'' \times 21'-0''$ No. 5 $-$ No. 6 \checkmark

Number of Shifting Beams ~~and/or Fore and Afters~~ No 1 fine No 2 Six No 3 Six No 4 fine

FOR MITSUBISHI BUSSAN KAISHA, LTD.
Builder's Signature Sutras For Manager
SHIP BUILDING DEPARTMENT

GENERAL DECLARATION This vessel has been built under special survey in accordance with the Rules + approved plans ^{except as noted below}. Deck, timbers + bulkheads + tarpaulins have been tested as per Rule + found satisfactory. The materials + workmanship employed are good. The requirements of Section 20 of the Rules for oil fuel F.P. above 150°F have been complied with. In my opinion this vessel is now entitled to the notation "fitted for oil fuel 8-29 F.P. above 150°F.", "pt. cem.", "Lloyds A + C.P.", "Wireless", "Electric Light", "Cargo battens not fitted" in the Register Book.

NB Only one $3\frac{1}{2}$ " dia. centre scupper pipe is at present fitted for draining the Motor Room to the bilge well (See Koko letter dated 25.10.29) See Mr. Endorsement

The amount of Entry Fee \pounds 62 : : ✓ Fees applied for, *ASIN*
Special Survey Fee.... \pounds 3295 : : ✓ *1* Oct. 25th 1929
Travelling Expenses, if any \pounds 147 : : ✓ Received by me, *8.1.30*
State whether the Vessel has been built under Special Survey *Yes*
Certificate to be sent to *Robt* Date of issue *10/12/29*
I am of opinion the Vessel should be Classed *+100A1*
when the scupper pipes from Motor Room to bulge well have been fitted as per appn
Signature *Clive Bell*
Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 10 DEC 1929
Character assigned + 100 A1

Lloyd's A & C F
bargain Bassens not fitted L.P. 100 lbs

WED. 11 JUN 1930
 Received
 Write K.H.
 Lloyd's Reg
 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.)

Duplicate of m/v 'Sensan Maru' Kob. Rpt. 6546

Plans as built

1. Midship Section
2. Construction profile + decks

Copies of casting + forging certificates + advice note attached.
NB. a number of advice note retained for reference with MBK 162

Particulars of Drop Test of Cast Steel Anchors, viz. :— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	24.1.13	K.H.	4222	15.10.26
	2nd "	24.1.14	K.H.	3935	24.5.26
	3rd "	24.3.11	N.B.	2924	24.8.26

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 26.5 ft., R.Q.D. ✓ ft., Bridge 62.5 ft., Forecastle 24.75 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) one dk. skl.

Official No. 337 : Signal Letters QCHN Is bottom of Vessel coated with cement 46, craft oil tanks if not give particulars of composition ✓

PARTICULARS OF WATER BALLAST.—

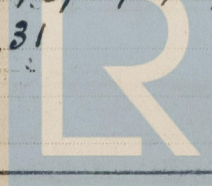
Where Fitted.	*Length. Feet.	Water Capacity. Tons.	230	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	72.5	235		Fore peak tank,	18	51.2
Double bottom, under Engines and Boilers,				After peak tank,	14	35
Double bottom, if under Engines only,	32.5	178 0		Deep tank, aft,		
Double bottom, if under Boilers only,				Deep tank, forward,		
Double bottom, forward,	124.75	356		Other tanks, if fitted, WING TANK	50	172.7
Total capacity of double bottom		469	(If necessary, furnish further information by sketch.)			

Order for Special Survey No. 28

Date 21.5.28

Dates of Surveys held while building

1928 Dec. 26 Jan. 8, 14, 22, Feb. 2, 7, 13, 20, 21, 28, 26 Mar. 6, 14, 20, 26, Apr. 2, 11, 16, 1929 May. 3, 8, 14, 17, 21, 22, 24, 29, 30 June 5, 13, 20, 24-5, 26, 27, July 1, 2, 5, 8, 9, 10, 19, 26, 29, 30 Aug. 2, 6, 14, 16, 26, 31



Lloyd's Register
Total No. of Visits 50
Foundation

For S.S.O.F. please see F.E. Rept m.v. 'Sensan Maru' Kob. 6536