

## STEEL STEAMER or MOTORSHIP.

Received at London Office

26 SEP 1927

State if Report has been sent on the Freeboard of the Vessel **Yes. (Kobe)**State if Report is sent on the Machinery of the Vessel **Yes.**Date of completion of report **18th August, 1927.**Port of **NAGASAKI.**No. **1600.**Survey held at **NAGASAKI.**Date First Survey **24th Nov. 1926.**Last Survey **29th July, 1927.**On the **Steel Single Screw Motor Vessel "COLUMBIA MARU".**State Type **Full Scantling Vessel.**State Type of Erections **Poop, Bridge, & Forecastle.**TONNAGE under Tonnage Deck **5209.72**CLASS **\*100AI.**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 405-0**Launched **2nd June 1927.** Yard No. **4 2 7.**Total **5209.72**Breadth (greatest moulded) **B 55-0**Builders **Nagasaki Works, Mitsubishi Zosen Kaisha, Ltd.,**Gross Tonnage **5611.74**Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) **D 32-0**Owners **Mitsubishi Shoji Kaisha, Ltd.,**Register Tonnage **3515.60**1st Longitudinal Number (L x D) **= 12,960**Managers **/**

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

2nd Numeral L x (B + D) **= 35,235**Residence **Tokio.**

REGISTERED DIMENSIONS. FEET.

Framing Depth "d," at middle of length. See Sec. 3 (1d) **18.63**Port of Registry **Tokio.**Length **405'-0"**Proportions—Depth to Length—Uppermost continuous deck to top of keel **12.66**

If surveyed while building, afloat, or in dry dock

Breadth **55'-0"**Do. Long Bridge to top of keel **10.25****While Building.**Depth **32'-0"**Draught Moulded **25'-6.1"**

## 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	B.A. 7 3 1/2 .34	
" " from 3/5 length to Collision bulkhead	27		" " Reversed Frame	B.A. 6 3 .36	
" " in peaks	24		" " Vertical Struts	Chan. 10x3 1/2 x 3 1/2 .42	
IDE FRAMING.			Centre Girder, depth and thickness amidships	44 .54 .44	
Frame Amidships, Angle, <del>for</del> [	11 1/2 3 1/2 .54	in way of Deep Tank.	" " top Angles	Double. 3 1/2 x 3 1/2 .52 .48	
" " Extends up to	2nd Deck.		" " bottom Angles	" 4 4 .58 .54	
Reversed Frame Amidships, Angle	/		Side Girders, No. each side and thickness	One .40-.44 where flgd.	
" " Extends up to	/		Margin Plate depth (excl. of flange) and thickness	36 .54 .52 at forward end.	
Depth of Framing Girder	11 1/2		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	3 1/2 3 1/2 .42	
Frames in Uppermost Continuous 'tween Decks, <del>Angle</del> [	8 3 1/2 .40		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	5 5 .42	
" " Second 'tween Decks, Angle, [ or [	/		" " Gussets, spacing and scantling abaft 1/2 len. from stem	6 6 .44 every fr.	
" " Third " " "	/		" " Gussets, spacing and scantling forward 1/2 len. from stem	6 6 .44 " "	
Framing in Peaks, <del>Angle</del> [	8 3 .40		Tank Side Brackets, height above base line at toe of Frame and thickness	77 .48-.46	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 5 1/2 in holds.		INNER BOTTOM PLATING.		
State if Frame Joggled	Yes.		Breadth and thickness of Middle Line Strake	51 .50-.42	
FRAMING ARRANGEMENTS (Sec. 7), state system and particulars	Deep Frame Arrangement. Frs. 11x3 1/2 x .54 BA with 5x3 1/2 x .46 Rev. Angle to 2nd deck. Tw. Dk. Frs 7x3 1/2 x .40 BA ext. to U.D. & Pole alt.		Thickness of remainder in Holds	.44 33" spacing-.40	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	Additional side girder spaces 8'-0" & half height. <i>Solplan</i>		Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space <del>increased</del>	Yes	
DOUBLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships in Wells, <del>Angle</del> [	8 3 .46 at No. 1 & 6 Hatch.	
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, <del>Angle</del> [	8 1/2 3 .48	
Middle Line Keelson, on Floors, Angles, [ or [			Spacing	33	
" " Through Plate or Intercoastal Plate			Second Deck, amidships, <del>Angle</del> [	9 3 .40	
" " Foundation Plate on Floors			Spacing	33	
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, [ or [		
Side Keelsons, No. each side			Spacing		
" " thickness of Intercoastal Plate			Fourth Deck, amidships, Angle, [ or [		
" " Angles			Spacing		
DOUBLE BOTTOM.			Poop Deck, <del>Angle</del> [	8 3 .36	
Solid Floors, thickness and spacing	.42 at 33" spacing. 40 27 "		Spacing	33 24	
" " Are Frame and Reversed Frame joggled?	No.		Bridge Deck, <del>Angle</del> [	8 3 .42 E.R.	
Bracket Floors, breadth and thickness at middle line	33 .42		Spacing	33	
" " breadth and thickness at margin plate	33 .42		Forecastle Deck, <del>Angle</del> [	8 1/2 3 .42	
			Spacing	24 & 27	



# 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.
<b>PILLARS, No. of Rows.....</b>				<b>Widely Spaced</b>	Stringer Plate, breadth and thickness in way of Bridge	47	.42	.40	.34
„ in 'tween Decks, Size and Spacing.....				<b>Pillars.</b>	Thickness of Plating abreast Deck openings in way of Wells	36	.36	.32	
„ „ „ „ „					Thickness of Plating abreast Deck openings in way of Bridge		.36	.30	
„ in Holds „ „					Thickness of Plating within line of openings..				
„ „ „ „ „					If Sheathed, material and thickness				
<b>Centre Line Bulkhead. in way of Deep Tank.</b>					<b>Third Deck.</b>				
Stiffeners and Spacing.....	B.A.	9	3 1/2 x .46	33" apart.	Stringer Plate, breadth and thickness.....				
Plating, thickness of		.40	.32		If Plated, state thickness.....				
<b>STRINGERS AND DECKS.</b>					<b>Fourth Deck.</b>				
<b>Uppermost Continuous Deck.</b>					Stringer Plate, breadth and thickness.....				
Stringer Plate, breadth and thickness in Wells	58	.86	.62		If Plated, state thickness				
„ „ „ „ in way of Bridge	58	1.29			<b>Poop Deck.</b>				
„ Angle in Wells	6	6	.86		Stringer Plate, breadth and thickness	36"	.36		
Thickness of Plating abreast Deck openings in way of Wells		.40	.60		Plating, Sheathing, material and thickness		.30		
Thickness of Plating abreast Deck openings in way of Bridge		.36	.60		<b>Bridge Deck.</b>				
Thickness of Plating within line of openings..	.40	.41	.34		Stringer Plate, breadth and thickness.....	58	.48		
If Sheathed, material and thickness	2 1/2" O.P. in Crews quarters.				Plating, Sheathing, material and thickness		.44		
<b>Second Deck.</b>					<b>Forecastle Deck.</b>				
Stringer Plate, breadth and thickness in Wells...	47	.40	.36		Stringer Plate, breadth and thickness.....	35	.36		
					Plating, Sheathing, material and thickness		.34		

## SHELL PLATING.

SCANTLINGS.					RIVETING.									
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.					
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	No.	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 .....	50	.80 ✓	.70 ✓	.70 ✓	✓	Double	1	3 <sup>3</sup> / <sub>4</sub>	4 - 3	1	4	Lapped		
„ DBLG. (if any)		/				/			/					
BOTTOM PLATING, No. of Strakes .....3.....}	96	.66 ✓	.48 ✓	.50 ✓	✓	Double	7/8	3 1 <sup>1</sup> / <sub>2</sub>	4 - 3	7/8	3 <sup>1</sup> / <sub>2</sub>	“		
BILGE PLATING, No. of Strakes .....1.....}	75	.66 ✓	.46 ✓	.50 ✓	✓	“	“	“	“	“	“	“		
SIDE PLATING, No. of Strakes .....6.....}	87	.66 ✓	.46 ✓	.50 ✓	✓	“	“	“	3	“	3 1/16	“		
UPPER DECK, Sheer-strake in Wells.....}	50	.87 ✓	.62	.66	1.30 at Bridge ends. ✓	“	1	3 <sup>3</sup> / <sub>4</sub>	5 - 4 - 3	7/8	3 1/16	“		
UPPER DECK, Sheer-strake in Bridge ...}	54	.66 ✓			✓	“	7/8	3 1 <sup>1</sup> / <sub>2</sub>	3	7/8	3 1/16	“		
STRAKE BELOW Sheer-strake in Wells.....}	50	.75-.60 ✓		.62	✓	“	1	3 <sup>3</sup> / <sub>4</sub>	4 - 3	7/8	3 1/16	“		
STRAKE BELOW Sheer-strake in Bridge ...}	50	.66 ✓			✓	“	7/8	3 1 <sup>1</sup> / <sub>2</sub>	3	7/8	3 1/16	“		
POOP SIDE PLATING .....				.38		Single	1/2	3	1	1/2	2 5/8	“		
BRIDGE SIDE PLATING ...		.60 ✓				Double	7/8	3 1 <sup>1</sup> / <sub>2</sub>	3	7/8	3 1/16	“		
FOREC'TLE SIDE PLATING			.42			Single	1/2	3	1	1/2	2 5/8	“		

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—							
Extending to Upper Deck (Sec. 3 c)		4.					
,, Deck next below		2.	No Endorsement				
As per Rule		6.	✓				
		Plating Thickness.	STIFFENERS.				
			VERTICAL.		HORIZONTAL.		
			Scantlings.	Spacing.	Scantlings.	Spacing.	
MIDSHIP BULKH'D, Upper tween decks		61-77 117 146	28-26	5 1/2 x 34	A 30		
,, Second		51	28-26	" " "	31		
,, Third		85-61	26	5 x 30	8A 24		
,,		77	46-30	15 x 4 x 4 1/2 C	25 1/2		
,,		117	48-30	13 1/2 x 5 W.P	24		
,, Holds		146	48-30	3 1/2 x 5 A	24		
COLLISION		146	50-30	10 x 3 1/2 x 5 B A	30		
AFTER PEAK		8	50-30	12 x 3 1/2 x 5 C	31		
,,		146	52-30	10 x 3 1/2 x 4 1/2 B A	24	SEMI BOX BEAM	
,,		8	50-30	10 x 3 1/2 x 5 B A	24	48 x 34	

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	/			
STEM	Forged Steel	10x21"		
STERN FRAME	Propeller Post	C.S. 10 1/2 x 8	Sumitomo Stl Wks.	
	Rudder	C.S. 9" x 8"	Osaka.	
RUDDER—A x D		473		
Speed of Vessel		11 knots.		
RUDDER mainpiece at head	F.S.	10"	Kobe Steel Works.	
„ „ heel	F.S.	7 1/2"		
„ how constructed		Built.		
„ double or single plate	Single	1.08"		
„ coupling, vertical or horizontal	Vertical	27 1/2" x 22 1/2"		

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) (Open Hearth Process.)  
**Dorman Long & Co., Pather Iron & Steel Works., August Thyssen-Hutte, Gewerkschaft, Hamborn & Rh.,**  
 Has the Steel been tested as required by the Rules? **Yes.**



EQUIPMENT No. 36582.										LETTER 3.		ANCHORS.			
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.			
663	1st Bower ...	64	3	23	Stockless			51	0	0	0	63 $\frac{3}{4}$	Hall's Type.	Kobe Stl	Kobe 19-2-19.A.L.J.
664	2nd „ ...	64	3	23	“			51	0	0	0	63 $\frac{3}{4}$	“	Works.	“
483	3rd „ ...	62	0	9	“			49	10	0	0	63 $\frac{3}{4}$	“	“	Kobe 27-8-19.A.L.J.
	Collective weight.	191	3	27								182			
329	Stream .....	17	2	2	4	2	16	18	12	2	0	17 $\frac{1}{2}$	Ordinary Stock	“	Kobe 6-5-18. A.L.J.

CHAIN CABLES.										(S11). 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.
1473	271 1/2	2 1/2	91 1/2	127	732-3-19	682 1/2	270	2 1/2	S.L.	Osaka Ch	Osaka 26-2-27	TOWLINE	120	4 1/2	68.54	120	5
									Chain Wks.	Y.Jo.		HAWSERS & WARPS	Special Flex.				
Iron Stream Chain or Steel Wire	90	4 1/2			64.9		90	4 1/2	Spec.			"	180	8		180	8
									Flex.			"	180	7		180	7

Steering Gear, Steam **Williams Janney Brown Electro Hydrau** Steering Gear, Hand **Yes.** - **Brown Bro's worm gear.**

Boats **1 in No. 18'-0"x4'-9"x1'-9".**  
**2 in No. 28'-0"x8'-9"x3'-6"** Steering Chains, Size and Test **Clarke Chapman & Co.,**  
**Windlass Electric Windlass.**

Ceiling in Holds, thickness and material **2 1/2" pine laid on** Cargo Battens, thickness, material and spacing **6" x 2" soft wood 9" apart.**  
**2 1/2" x 2" battens.**

Cargo Hatchways.-(Upper Deck) **Plates & Angles & Wood Covers.** Thickness of Hatches **3" O.P. except No.7, 2 1/2".**

Size of No. 1 Hatchway (Forward) **33'-9"x20'-0"** No. 2 **38'-6"x20'-0"** No. 3 **22'-0"x20'-0"** No. 4 **8'-3"x20'-0"** No. 5 **33'-0"x20'-0"** No. 6 **33'-0"x20'-0"**  
**No.7. 8'-3"x12'-0".**

Number of Shifting Beams ~~and other particulars~~ **No.1-5: No.2-6: No.3-3: No.4-1: No.5-5: No.6-5: No.7-1:**

NAGASAKI WORKS, MITSUBISHI ZOSEN KAISHA, LTD.  
 Builder's Signature *M. Atz*

GENERAL DECLARATION **This vessel has been built in accordance with the Rules and approved plans.**

**The materials and workmanship are good.**

**The Fore and Aft peak tanks, Deep Tanks, Double Bottom Tanks, Weather decks, Gutterways and W.T. Bulkheads have been satisfactorily tested.**

**The Freeboard has been verified and the Freeboard Marks have been clearly indicated by centre punch marks on the vessel's side.**

**Plans sent under separate cover of:- Midship section. Construction profile & Deck plan.**

**W.T.Bulkhead. Rudder. Stern frame. Pumping. Main engine seating; also certificates of Castings and Forgings.**

The amount of Entry Fee **Y 90:00:** Fees applied for, **4. 8. 19 27**

Special Survey Fee. **Y 5104:50:** Received by me, *ea* **15. 8. 19 27**

**Freeboard. Y 165:00**

**London & Kobe. Travelling Expenses, if any £ :**

**cablegrams. Y 16:58**

State whether the Vessel has been built under Special Survey **Yes.** I am of opinion the Vessel should be Classed **\*100AI.**

Signature *Goyt Anderson*  
 Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to **Nagasaki.** Date of issue **4/10/27.**

**FRI. 30 SEP 1927**

Committee's Minute

Character assigned **+ 100 HI**

*Lloyd's A&CP* *+ L.M.C. 7. 27 C.L.*  
*Oil Engines*  
*D.B. 100lb*

*Mitchell 30/9/27*

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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.)

PILLARS, No. 0

" in 'tv

" "

" in F

" "

Centre Line  
Stiffeners and

Plating, thick

TRINGERS A  
Uppermost C  
Stringer Pl

"

" At

Thickness  
in way c

Thickness  
in way c

Thickness

If Sheath

Second D  
Stringer F

STRAK

PLATE

" D

OTTOM PL  
of Strake

ILGE PLAT  
Strakes

DE PLAT  
Strakes

PPER DE  
strake in

PPER DE  
strake in

RAKE BI  
strake in

RAKE BI  
strake in

OP SIDE

BRIDGE SI

OREC'TLE

otal No

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

1st Bower 37-0-16. A.L.J. 663. 4-2-19.  
2nd " 37-1-3. " 664. 4-2-19.  
3rd " 36-3-9. " 483. 2-6-18.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 58.25 ft., R.Q.D. / ft., Bridge 110.0 ft., Forecastle 40.5 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. steel. 2 tiers of beams.

Official No. 33079. ; Signal Letters T.L.M.B.

Particulars of composition Fore & Aft Peaks, P.W. Tanks, Cofferdams and Wells cement washed, Fuel Oil Tanks not coated. Is bottom of Vessel coated with cement. if not give

PARTICULARS OF WATER BALLAST.—(Salt water)

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	126.5	377.82	Fore peak tank,	21.781	125.68
Double bottom, under Engines and Boilers,	44.0	231.95	After peak tank,	16.000	32.52
Double bottom, if under Engines only,			Deep tank, aft,	27.500	735.30
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	176.25	605.51	Other tanks, if fitted,		
	Total capacity of double bottom	1215.28	(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. 78.

Date 8th June 1926.  
London.

Dates of Surveys  
held while building

1926.  
Nov. 24. 26. 1927. Jan. 10. 14. 20. 21. 24. Feb. 17. Mar. 3. 10. 11. 15. 16. 24. 25. 30.  
Apr. 13. 18. 21. 25. May 2. 4. 5. 6. 11. 16. 17. 20. 23. 24. 25. 27. June 2. 3. 6. 9. 10. 14.  
18. 20. 24. 27. 30. July 1. 8. 12. 13. 18. 20. 21. 25. 27. 28. 29.

Total No. of Visits 54.

Lloyd's Register  
Foundation