

## STEEL STEAMER or MOTORSHIP.

Received at London Office

5 JUL 1927

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 **24<sup>TH</sup> MAY 1927** Port of **YOKOHAMA** No. **3936**  
Survey held at **URAGA JAPAN** Date First Survey **19<sup>TH</sup> JULY 1926** Last Survey **18<sup>TH</sup> MAY 1927**On the **SINGLE SC. SR. TAKAO MARU**State Type **COMPLETE SUPERSTRUCTURE (NO TONNAGE OPENINGS)** State Type of Erections **BRIDGE & F.CLE.**TONNAGE under Tonnage Deck **3856.81** CLASS **+100 A-1** State if with freeboard as condition of Class **YES** Built at **URAGA JAPAN**Do. of space or spaces between Tonnage Dk. and Upper Dk. **1018.60** Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) **L 355** Launched **2-4-1927** Yard No. **317**Total **4875.41** Breadth (greatest moulded) **B 48.5** Builders **URAGA DOCK CO. LTD.**Gross Tonnage **4281.76** Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) **D 32.5** Owners **OSAKA SHOSEN KABUSHIKI KAISHA.**Register Tonnage **2516.87** 1st Longitudinal Number (L x D) **= 11892** Managers **(Where necessary to be entered in Reg. Book.)**REGISTERED DIMENSIONS. FEET. Residence **OSAKA**Length **355.65** Framing Depth "d," at middle of length. See Sec. 3 (1d) **21.67** Port of Registry **OSAKA.**Breadth **48.50** Proportions—Depth to Length—Uppermost continuous deck to top of keel **10.92** If surveyed while building, afloat, or in dry dockDepth **32.50** Draught Moulded **23ft. 2.16ms** **WHILE 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.
<b>FRAMES, Spacing amidships</b>	<b>30</b>		<b>Bracket Floors, Frame</b>	<b>5" x 3 1/2" x 4" ANGLE</b>	
" " from 1/2 length to Collision bulkhead	<b>27</b>		" " Reversed Frame	<b>5" x 3" x 31" ANGLE</b>	
" " in peaks	<b>24</b>		" " Vertical Struts	<b>9" x 3 1/2" x 38"</b>	
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>	<b>40" x 52" x 42"</b>	
<b>Frame Amidships, Angle, [ or ]</b>	<b>10 4 475</b>		" " top Angles <b>DOUBLE</b>	<b>3 1/2" x 3 1/2" x 57" x 48"</b>	
" " Extends up to	<b>2<sup>ND</sup> DECK.</b>		" " bottom Angles <b>DOUBLE</b>	<b>4" x 4" x 56" x 52"</b>	
<b>Reversed Frame Amidships, Angle</b>	<b>NO REV. FR.</b>		<b>Side Girders, No. each side and thickness</b>	<b>ONE 38" x 48BS</b>	
" " Extends up to			<b>Margin Plate depth (excl. of flange) and thickness</b>	<b>35" x 5" IN WAY OF 2<sup>ND</sup> DECK. 32" x 5" - 3"</b>	
<b>Depth of Framing Girder</b>	<b>10 INCHES</b>		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	<b>3 1/2" x 3 1/2" x 42.5A.</b>	
<b>Frames in Uppermost Continuous 'tween Decks, Angle, [ or ]</b>	<b>7 3 1/2 4</b>		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	<b>3 1/2" x 3 1/2" x 42.5A.</b>	
" " Second 'tween Decks, Angle, [ or ]	<b>7 3 1/2 4</b>		" " Gussets, spacing and scantling abaft 1/2 len. from stem	<b>3 1/2" x 3 1/2" x 42.5A. ALTERNATE FR.</b>	
" " Third " " " "			" " Gussets, spacing and scantling forward 1/2 len. from stem	<b>3 1/2" x 3 1/2" x 42.5A. EVERY FRAME</b>	
<b>Framing in Peaks, Angle or CHANNEL</b>	<b>7 3 375</b>		<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>	<b>6" x 2" x 44"</b>	
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amidships</b>	<b>7/8 6 1/4 APART.</b>		<b>INNER BOTTOM PLATING.</b>		
<b>State if Frame Joggled</b>	<b>FRS. JOGGLED EXCEPT IN PEAKS.</b>		<b>Breadth and thickness of Middle Line Strake</b>	<b>58" x 57" x 4" 50" APPROVED</b>	
<b>PANTING ARRANGEMENTS (Sec. 7), state system and particulars</b>	<b>WEB FR. ARR. 4 WEB FRAMES 2 PANTING STRINGERS.</b>		<b>Thickness of remainder in Holds</b>	<b>56 8.5 42 70 36</b>	
<b>STRENGTHENING OF BOTTOM FORWARD. State Particulars</b>	<b>FR. 5" x 6" x 42.5A. FOR 1/2 OF 3/4 L &amp; SHELL PLATING INCREASED ADDITIONAL GIRDER.</b>		<b>Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. &amp; B. space and framing in Bunkers and Boiler Room?</b>	<b>YES.</b>	
<b>SINGLE BOTTOM.</b>			<b>BEAMS.</b>		
<b>Floors, Depth and thickness at mid-line in Holds</b>			<b>Uppermost Continuous Deck, amidships</b>	<b>6" x 3" x 46 8.8A.</b>	
<b>Height of Brackets at side above base line at toe of frame</b>			" " in Wells, Angle, [ or ]	<b>6" x 3" x 31 1/2"</b>	
<b>Middle Line Keelson, on Floors, Angles, [ or ]</b>			" " in way of Bridge, Angle, [ or ]	<b>21170</b>	
" " Through Plate or Intercoastal Plate			" " Spacing	<b>EVERY FRAME.</b>	
" " Foundation Plate on Floors			<b>Second Deck, amidships, Angle, [ or ]</b>	<b>6" x 3" x 31 1/2"</b>	
" " Flat Plate Keel Angles			" " Spacing	<b>EVERY FRAME.</b>	
<b>Side Keelsons, No. each side</b>			<b>Third Deck, amidships, Angle, [ or ]</b>	<b>6" x 3" x 31 1/2"</b>	
" " thickness of Intercoastal Plate			" " Spacing	<b>EVERY FRAME</b>	
" " Angles			<b>Fourth Deck, amidships, Angle, [ or ]</b>		
<b>DOUBLE BOTTOM.</b>			" " Spacing		
<b>Solid Floors, thickness and spacing</b>	<b>38 48BS. EVERY 3<sup>RD</sup> FRAME</b>		<b>Bridge Deck, Angle, [ or ]</b>	<b>8" x 3" x 36 8.8A 8" x 3" x 34.8A APPROVED</b>	
" " Are Frame and Reversed Frame joggled?	<b>FRS. JOGGLED.</b>		" " Spacing	<b>ALT. FRAMES.</b>	
<b>Bracket Floors, breadth and thickness at middle line</b>	<b>30" x 38 48BS</b>		<b>Forecastle Deck, Angle, [ or ]</b>	<b>7" x 3" x 3 1/2"</b>	
" " breadth and thickness at margin plate	<b>30" x 38 48BS</b>		" " Spacing	<b>ALT. FRAMES.</b>	

## 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>WIDE</b>		Stringer Plate, breadth and thickness in way of Bridge .....	<b>46" * 38</b>	
„ in 'tween Decks, Size and Spacing.....	<b>SPACED</b>		Thickness of Plating abreast Deck openings in way of Wells .....	<b>.34</b>	
„ „ „ „ „	<b>PILLARS</b>		Thickness of Plating abreast Deck openings in way of Bridge .....	<b>.34</b>	
„ „ „ „ „	<b>GIRDERS</b>		Thickness of Plating within line of openings...	<b>.32</b>	
„ in Holds „ „	<b>(SEE OVER)</b>		If Sheathed, material and thickness .....	<b>UNSHEATHED</b>	
„ „ „ „ „			<b>Third Deck.</b>		
<b>Centre Line Bulkhead.</b>			Stringer Plate, breadth and thickness.....	<b>46" * 34</b>	
Stiffeners and Spacing.....			If Plated, state thickness.....	<b>.30</b>	
Plating, thickness of .....			<b>Fourth Deck.</b>		
<b>STRINGERS AND DECKS.</b>			Stringer Plate, breadth and thickness.....		
<b>Uppermost Continuous Deck.</b>			If Plated, state thickness .....		
Stringer Plate, breadth and thickness in Wells	<b>53 * 52</b>		<b>Pop Deck.</b>		
„ „ „ „ in way of Bridge	<b>53 * 52</b>		Stringer Plate, breadth and thickness .....		
„ „ „ „ „	<b>68 AT BR. END.</b>		Plating, Sheathing, material and thickness ...		
„ Angle in Wells .....	<b>5 * 5 * 52</b>		<b>Bridge Deck.</b>		
Thickness of Plating abreast Deck openings in way of Wells .....	<b>.40</b>		Stringer Plate, breadth and thickness.....	<b>38" * 40</b>	
Thickness of Plating abreast Deck openings in way of Bridge .....	<b>.40</b>		Plating, Sheathing, material and thickness ...	<b>.30 3 O.P.</b>	
Thickness of Plating within line of openings...	<b>.36</b>		<b>Forecastle Deck.</b>		
If Sheathed, material and thickness .....	<b>5 * 3 OREGON PINE.</b>		Stringer Plate, breadth and thickness.....	<b>34" * 34</b>	
<b>Second Deck.</b>			Plating, Sheathing, material and thickness ...	<b>.30 3 O.P.</b>	
Stringer Plate, breadth and thickness in Wells...	<b>46" * 38</b>				

## SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? <i>NOT JOGGED</i>			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.			Inches.	Inches.		Inches.	Inches.	
FLAT PLATE KEEL .....	49	.7	.62	.62		DOUBLE	7/8	3 1/2	4R to 3R.	7/8	3 1/8	LAPPED
„ DBLG. (if any)												
BOTTOM PLATING, No.) of Strakes 4 EACH SIDE	66	.54	.46	.46		DOUBLE	7/8	3 1/2	3R.	7/8	3 1/8	“
BILGE PLATING, No. of Strakes .. ONE .....	63	.54	.46	.46		DOUBLE	“	“	3R	“	“	“
SIDE PLATING, No. of Strakes 4 EACH SIDE	66	.54	.44	.44		DOUBLE	“	“	3R.	“	“	“
UPPER DECK, Sheer- strake in Wells .....	50	.62	.44	.44		DOUBLE	“	“	4R to 3R.	“	“	“
UPPER DECK, Sheer- strake in Bridge ...		.80	AT BRIDGE ENDS.									
STRAKE BELOW Sheer- strake in Wells .....	66	.60	.44	.44	59" B'DTH. APPROVED	DOUBLE.	“	“	3R.	“	“	“
STRAKE BELOW Sheer- strake in Bridge ...	66	.60				DOUBLE	“	“	3R.	“	“	“
<del>POOR SIDE PLATING .....</del>												
BRIDGE SIDE PLATING ...		.40				SINGLE	3/4	3	SINGLE	3/4	2 5/8	“
FOREC'TLE SIDE PLATING			.40			DOUBLE AT BRIDGE END	3/4	3	SINGLE	3/4	2 5/8	“

## WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—		Extending to Upper Deck (Sec. 3 c)		Deck next below		As per Rule	
SIX		SIX		SIX		SIX	
		STIFFENERS.					
		VERTICAL.		HORIZONTAL.			
		Scantlings.		Scantlings.			
		Spacing.		Spacing.			
MIDSHIP BULKHEAD, Upper tween decks		26 4" FL. 28"		✓			
" " Second " ✓		26 4" x 3" 28 L 28"		✓			
" " Third " ✓		10" 3 1/2" 28					
" " Holds .....		44 to 28 8 A. 28" x 30"		✓			
COLLISION " (in Hold) .....		48 to 36 3" x 31 1/2" 24		✓			
AFTER PEAK " " .....		46 to 36 3" x 32 1/2" 24		✓			
<p>Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) <b>OPEN HEARTH.</b></p> <p><b>GUTEHOFFNUNGSHUTTE, OBERHAUSEN. THYSEN (AUGUST) HUTTE GERMANY</b></p> <p><b>DORMAN LONG &amp; CO. L<sup>d</sup> &amp; CARGO FLEET IRON CO. L<sup>d</sup> MIDDLESBROUGH. THE IMPERIAL STEEL &amp; NAVE YAWAT JAPAN</b></p> <p>Has the Steel been tested as required by the Rules? <b>YES.</b></p>							

EQUIPMENT No. 29644 ✓										LETTER W	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.			
12	1st Bower ...	51	1	2				43	15	0	0	52½	STOCKLESS	OSHIMA S.N.	OSHIMA 31-1-27 Rob
13	2nd „ ...	51	1	15				43	4	2	11		D:	D:	D: D: D:
14	3rd „ ...	51	1	8				43	4	2	11		D:	D:	D: D: D:
	Collective weight.	153	3	25	✓							✓ 149½ ✓			
15	Stream .....	16	1	0	4	0	22	17	12	0	0		STOCK.	D:	OSHIMA 26-1-27 D:

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.	Ins.		Length.	Ins.	
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
1457	105 3/4	2 3/8	8 1/4	1134	249-3-0				270	2 1/8	STUD	OSAKA C.M.L. OSAKA	27-11-26 Y.N.	TOWLINE S.F.S.W.	120	4 1/2	59			
SEE OVER FOR REMAINDER OF CHAIN CABLES															HAWSERS & WARPS	2e90	7"	MANILA	ROPE	
Iron Stream		Ins.								Ins.				"	2e90	7"	D:	D:		
Steel Wire	90	4 1/2		59.							S.F.S.W.			"						

Steering Gear, Steam	EFFICIENT	Steering Gear, Hand	EFFICIENT								
Boats	2 LIFEBOATS 1 CUTTER + 1 TEMPA.	Steering Chains, Size and Test	NO STEERING CHAINS	Windlass	EFFICIENT.						
Ceiling in Holds, thickness and material	2 1/2" OREGON PINE	Cargo Battens, thickness, material and spacing	6" x 2" O.P. 7" APART.								
Cargo Hatchways.—(Upper Deck)	FOUR	Thickness of Hatches	3" OREGON PINE.								
Size of No. 1 Hatchway (Forward)	27' x 18'	No. 2	32' 6" x 20'	No. 3	30' 0" x 20'	No. 4	27' 6" x 20'	No. 5	✓	No. 6	✓
Number of Shifting Beams	<del>and for Fore and Aft.</del> AWNING OK.	N <sup>o</sup> 1-2-3 HATCHES 5 EACH N <sup>o</sup> 4 HATCH 4									
Builder's Signature <i>Alno</i> for <i>Uraga Dock Co.</i>											

GENERAL DECLARATION	<i>vessel built in accordance with approved plans (see letter)</i>
<i>The workmanship is good.</i>	
<i>Wireless Installation fitted.</i>	
<i>Midship Section of vessel as built enclosed.</i>	
<i>Copies of Certificates of Anchors, forgings and castings enclosed.</i>	
<i>All weather decks, gutterways &amp; watertight bulkheads were tested as required by the Rules &amp; found satisfactory.</i>	
<i>All double bottom tanks and fore and aft peak tanks were tested to Rules Requirements and found satisfactory.</i>	

The amount of Entry Fee	<i>YEN. 83.50</i>	Fees applied for,	<i>18-5-1927</i>
Special Survey Fee	<i>4447.00</i>	Received by me,	
<i>FREEBOARD</i>	<i>150.00</i>		
Travelling Expenses, if any	<i>152.50</i>	<i>30-5-1927</i>	
State whether the Vessel has been built under Special Survey	<i>YES</i>	Signature	<i>Jas. Brighton</i>
H&M Certificate to be sent to	<i>Yka</i>	Date of issue	<i>19/7/27</i>
Surveyor to Lloyd's Register of Shipping.			

Committee's Minute	<i>TUES. 19 JUL 1927</i>
Character assigned	<i>+ 100 A1 With Freeboard</i>
<i>Lloyd's A&amp;CP</i>	
<i>+ R.M.C. 5: 27</i>	
<i>FD 100</i>	
<i>Mike</i>	
<i>28th Feb.</i>	
<i>My</i>	

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.)

### REMAINDER OF CHAIN CABLES

N <sup>o</sup> OF CERT.	LEN & SIZE SUPPLIED		TEST PER CERT.		WEIGHT OF C.C.		FATHS AND SIZE PER 31.		DESP <sup>l</sup>	MAKERS	WHERE, WHEN TESTED & SUPERINTENDENT
	LEN.	DIA.	STAT.	BREAKING	SUPPLIED	PER RUL	LEN	DIA.			
	FMS.	INS.	TONS	TONS.	C. Q. L.	C. Q. L.					
54104	30	2 $\frac{3}{8}$	81.5-0-0		69-2-11				STUD LINK	TIPTON	23-5-19 C.E.P.
54105	30	2 $\frac{3}{8}$	0°		68-3-18				D°		D°
54106	30	2 $\frac{3}{8}$	0°		70-0-14				D°		D°
54031	15	2 $\frac{3}{8}$	0°		34-3-2				D°		D°
54030	15	2 $\frac{3}{8}$	0°		34-3-12				D°		D°
71381	15	2 $\frac{3}{8}$	0°		34-3-0				D°	NETHERTON	6-7-19 W.A.2
71376	30	2 $\frac{3}{8}$	0°		69-0-0				D°		D°

CERT. FOR SHACKLES. - 3 END SHACKLES 3 $\frac{1}{16}$ " DIA. FOR 2 $\frac{3}{8}$ " CHAIN WEIGHT 3 CENTS 2 QRS 3 LBS.  
LEN. 17 $\frac{1}{2}$ " BR. 10 $\frac{7}{8}$ " TENSILE 8 $\frac{1}{4}$ " TONS. BREAKING 113 $\frac{3}{4}$ " TONS. MAKERS THE OSAKA C.M.L.  
OSAKA. 18-8-26 Y.J.

FORGINGS & CASTINGS. COPIES OF CERTIFICATES ENCLOSED HERewith.

WIDE SPACED PILLARS TO RANING DR. SOLID 2 $\frac{1}{2}$ " DIA. (CEN. ONLY) 3 $\frac{1}{2}$ " 3 $\frac{3}{4}$ " + 4 $\frac{1}{4}$ " DIA.

TO 2<sup>nd</sup> DECK. TUBULAR 8" DIA. \* 4 9" \* 4 9 $\frac{1}{2}$ " \* 4 10" \* 4  
10" \* 42 12" \* 52 12 $\frac{1}{2}$ " \* 52 + 3" DIA. SOLID (CEN. ONLY.)

TO 3<sup>rd</sup> DECK. + 6\*6\*56. TUBULAR 13" DIA. \* -54  
14" \* -5.  
6\*36 CEN. ONLY  
+ 3 $\frac{1}{2}$ " DIA. SOLID CEN. ONLY.

Particulars of Drop Test of Cast Steel Anchors, viz. :— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	33 CENTS. 0 QRS. 8 LBS.	R.O.B.	N <sup>o</sup> 12	26-1-27.
	2nd "	32 " 3 " 22 "	R.O.B.	N <sup>o</sup> 13	26-1-27
	3rd "	33 " 1 " 8 "	R.O.B.	N <sup>o</sup> 14	26-1-27.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop  $\checkmark$  ft., R.Q.D.  $\checkmark$  ft., Bridge 30 ft., Forecastle 37.25 ft.  
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated  $\checkmark$

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 3 DKS (STL) *See plan*  
Official No. 32733 ; Signal Letters T.K.C. Q. Is bottom of Vessel coated with cement YES if not give particulars of composition\*  $\checkmark$

### PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	92.5	178	Fore peak tank,	18	37
Double bottom, under Engines and Boilers,	75.0	259	After peak tank,	12	18
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	129.25	274	Other tanks, if fitted,		
	Total capacity of double bottom	711	(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. 4

Date 31-5-1926

Dates of Surveys held while building.

1926. JULY 19. 24. AUG 4. 9. SEP. 2. 8. 14. 20. 30. OCT. 4. 8. 11  
13. 20. NOV. 1. 5. 12. 19. 26. DEC. 4. 14. 28.  
1927. JAN. 10. 13. 27. FEB. 1. 5. 12. 18. MAR. 1. 8. 11. 14. 19. 22  
25. 28. APRIL 8. 21. MAY 4. 11. 18  
Total No. of Visits 42