

STEEL STEAMER or MOTORSHIP.

Received at London Office

2 NOV 1931

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

6th October 1931

Port of

Yokohama

No.

4786

Survey held at

Uraga

Date First Survey

24th April 1930

Last Survey

1st Oct. 1931

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

SINGLE SCREW MOTORSHIP

"KATSURAGI MARU"

State Type

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

Complete superstructure with tonnage opening

State Type of Erections

Forecastle

TONNAGE under Tonnage Deck...

5239.27

CLASS *100 A1*

State if with freeboard as condition of Class

Yes

Built at

Uraga

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

205.06

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)

L 440' 0"

Breadth (greatest moulded)

B 60' 0"

Total

5444.33

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

D 40' 0.69

Gross Tonnage

5840.55

Register Tonnage

3485.15

1st Longitudinal Number (L x D) = 17626

2nd Numeral L x (B + D) = 44026

REGISTERED DIMENSIONS. FEET.

Length

443.60

Breadth

60.00

Depth

40.06

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

16.15

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

11

Do. Long Bridge to top of keel

Draught Moulded 26' 0.79

Launched

15 May 1931

Yard No. 374

Builders

Uraga Dock Co. Ltd.

Owners

Kokusai Kisen K.K.

Managers

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

Residence

Port of Registry

HASHIDATE

If surveyed while building, afloat, or in dry dock

Building

30.06 Kobe L.S. 12.31

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	36		Bracket Floors, Frame		
" " from $\frac{3}{8}$ length to Collision bulkhead	27		" " Reversed Frame		
" " in peaks	24		" " Vertical Struts		
DE FRAMING.			Centre Girder, depth and thickness amidships	45.62	
Frame Amidships, Angle, \angle or \square	11 3 1/2 54		" " top Angles	3 1/2 3 1/2 56	
" " Extends up to	3rd deck		" " bottom Angles	5 5 66	
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	2 44	
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	39 58	
Depth of Framing Girder	8 3 1/2 40		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	6 6 50	TEE ANGLE
Frames in Uppermost Continuous 'tween Decks, Angle, \angle or \square	6 3 1/2 40	alternately	" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem	6 6 48	DOUBLE
" " Second 'tween Decks, Angle, \angle or \square	8 3 1/2 40		" " Gussets, spacing and scantling abaft 1/4 len. from stem	39 58	CONTINUOUS
" " Third " " " "			" " Gussets, spacing and scantling forward 1/4 len. from stem		MARGIN HORIZONTAL
Framing in Peaks, Angle, \angle or \square	8 3 1/2 42		Tank Side Brackets, height above base line at toe of Frame and thickness	82	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	1/8 4 1/8		INNER BOTTOM PLATING.		
State if Frame Joggled	JOGGLED IN TWEEN DECKS ONLY.		Breadth and thickness of Middle Line Strake	55 56	
STRENGTHENING ARRANGEMENTS (Sec. 7), state system and particulars	INCREASED THICKNESS 20% SIDE SHELL PLATING UNDER 2nd DK 2 SIDE STRINGERS 9 x 3 1/2 x 50 S.A.		Thickness of remainder in Holds	49	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	BOTTOM PLATING MAINTAINS MIDSHIP THICKNESS TO COLLISION BULKHEAD BOTTOM FRAMES 6 x 6 x 48 S.A.		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?	des.	
DOUBLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships	9 3 1/2 38	
Height of Brackets at side above base line at toe of frame			" " in Way of Bridge, Angle, \angle or \square		
Middle Line Keelson, on Floors, Angles, \angle or \square			Spacing	36	
" " Through Plate or Intercoastal Plate			Second Deck, amidships, Angle, \angle or \square	10 3 1/2 38	
" " Foundation Plate on Floors			Spacing	36	
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, \angle or \square	9 3 1/2 46	
Side Keelsons, No. each side			Spacing	36	
" " thickness of Intercoastal Plate			Fourth Deck, amidships, Angle, \angle or \square		
" " Angles			Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle, \angle or \square		
Solid Floors, thickness and spacing IN WAY OF DEEP TANKS	ER 50 36 46 36		Spacing		
" " Are Frame and Reversed Frame joggled?	No		SALOON Bridge Deck, Angle, \angle or \square	6 3 32	
Bracket Floors, breadth and thickness at middle line	SEE SEPARATE TABLE FOR PARTICULARS PART LONGITUDINAL FRAMING AT DOUBLE BOTTOM.		Spacing	36	
" " breadth and thickness at margin plate			Forecastle Deck, Angle, \angle or \square	8 3 42	
			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.....					Stringer Plate, breadth and thickness in way of Bridge				
„ in 'tween Decks, Size and Spacing.....	<i>Wide spaced pillars</i>				Thickness of Plating abreast Deck openings in way of Wells	42			
„ „ „ „ „	<i>girders as per</i>				Thickness of Plating abreast Deck openings in way of Bridge				
„ in Holds „ „	<i>approved plans.</i>				Thickness of Plating within line of openings...	34			
„ „ „ „ „					If Sheathed, material and thickness				
Centre Line Bulkhead.					Third Deck.				
Stiffeners and Spacing.....	7	3	46	36" Spacing	Stringer Plate, breadth and thickness.....	50	34		
Plating, thickness of		30			CROWN DEEP TANK	50	44		
					If Plated, state thickness.....		30		
STRINGERS AND DECKS.					Fourth Deck.				
Uppermost Continuous Deck.					Stringer Plate, breadth and thickness.....				
Stringer Plate, breadth and thickness in Wells.....	78	66			If Plated, state thickness				
„ „ „ „ in way of Bridge					Poop Deck.				
„ Angle in Wells	6	6	70		Stringer Plate, breadth and thickness				
Thickness of Plating abreast Deck openings in way of Wells		58			Plating, Sheathing, material and thickness ...				
Thickness of Plating abreast Deck openings in way of Bridge					SALOON				
Thickness of Plating within line of openings...		46			Bridge Deck.		30		
If Sheathed, material and thickness					Stringer Plate, breadth and thickness.....				
Second Deck.					Plating, Sheathing, material and thickness ...		25		
Stringer Plate, breadth and thickness in Wells...	50	44			Forecastle Deck.				
					Stringer Plate, breadth and thickness.....	36	38		
					Plating, Sheathing, material and thickness ...		36		

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged?			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	54	84	74	74		DOUBLE	1	4	4-3	1	4	LAPPED
„ DBLG. (if any)												
BOTTOM PLATING, No. of Strakes4.....	86 75 74	69	52	52		"	7/8	3 1/2	4-3	7/8	3 1/2	"
BILGE PLATING, No. of Strakes1.....	83	69	52	52		"	7/8	3 1/2	4-3	7/8	3 1/2	"
SIDE PLATING, No. of Strakes5.....	70 84 72	67	52	54		"	7/8	3 1/2	3	7/8	3 1/2	"
UPPER DECK, Sheer-strake in Wells.....												
UPPER DECK, Sheer-strake in Bridge ...	77	80	48	48		"	1	4	4-3	1	4	"
STRAKE BELOW Sheer-strake in Wells.....												
STRAKE BELOW Sheer-strake in Bridge ...												
POOP SIDE PLATING												
BRIDGE SIDE PLATING ...												
FOREC'TLE SIDE PLATING			44			SINGLE	3/4	3	1	3/4	2 5/8	"

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	8
Extending to Upper Deck (Sec. 3 c)	1
„ Deck next below	7 of 20 bulkhead
As per Rule	(see sketches on back of report)

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks					
„ „ Second „	28	6x3x38	30		
„ „ Third „					
„ „ Holds	40-30	10x3x52	24	ONE HORIZONTAL GIRDER	
COLLISION „ (in Hold)	56-34	9x3x36	24	FACE ANGLE 3x4x8	
AFTER PEAK „ „	80-30	8x3x42	24	11x3x46	6'0"

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	PLATE	KEEL		
STEM	UPPER PLATE FORGING	76	EDWARDS & CO.	
	LOWER CASTING	102x4	STEEL CO.	
STERN FRAME { Propeller Post	AS APPROVED	CASTING	WORKS	
{ Rudder „	PLAN			
RUDDER—A x D	405			
Speed of Vessel	17 KNOTS			
RUDDER mainpiece at head ...	AS APPROVED	CASTING	DITTO	
„ „ heel ...	"	CASTING	DITTO	
„ STOCK	"	11 1/4 D. FORGING	DITTO	
„ how constructed	STREAMLINE TYPE			
„ 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) *Edwards Shipbuilding Co. Frodingham Iron & Steel Co. Steel Company of Scotland. Sargo Steel Iron Co. Corsett Iron Co. Larnach Steel Co. Pease & Partners. David Colville & Sons. Percinigh Hallwork. Mannesmannrohren Huettingen. Dorman Long & Co.*

Has the Steel been tested as required by the Rules? *Yes.*

EQUIPMENT No. 44969										LETTER C7	ANCHORS.
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE			Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.
1051	1st Bower	77	1	27				57	8	3	0
1053	2nd "	77	2	23				57	12	2	0
1054	3rd "	77	1	27				57	8	3	0
	Collective weight.	232	2	21							
1052	Stream	27	3	0				26	18	3	0

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.	Tons.	Length.	Cir.
1778	153	2 1/16	106 3/16	149 3/16	480.0.15		300	2 1/16	Had Link	Osaka Steam	Kobe 8 April 1931 J. J.	TOWLINE	130	5 1/4	84.7		
1790	153 1/2	2 1/16	106 3/16	149 3/16	479.0.7	890 1/4			"	"	Kobe 12 June 1931 J. J.	HAWSERS & WARPS	20 1/2	3	27.82		
1791	306	1 9/16	31		1.0.8				"	"	"	"	20 1/2	8	MANILLA		
Iron Stream Chain or Steel Wire	120	4 1/2		64 3/16					S.W.R.	TOKYO SEIKO KAISHA.		"	20 1/2	8	"		

Steering Gear, ~~Steam~~ Electric drive
Boats 1 Defboat 27.8 x 8.85 x 3.6
2 Demas 27.9 x 8.60 x 3.75
2 Demas 20.5 x 5.4 x 1.95
Steering Chains, Size and Test 22 ap.
Ceiling in Holds, thickness and material 22 ap.
Cargo Hatchways, (Upper Deck) Boaming 30" x .44
Thickness of Hatches 3" ap.
Size of No. 1 Hatchway (Forward) 29'3" x 18'0" No. 2 36'0" x 20'0" No. 3 30'0" x 20'0" No. 4 30'0" x 20'0" No. 5 36'0" x 20'0" No. 6 29'3" x 20'0"
Number of Shifting Beams and/or Fore and Afters Nos 1, 3, 4 & 6 HATCHWAYS 5 BEAMS Nos 2 & 5 HATCHWAYS 6 BEAMS.

Builder's Signature

Ch. Ono
for Waga Dock Co. Ltd.

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo. The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

The double bottom tanks, wing tanks aft, and fore peak tank have been fitted to carry oil fuel with flash point above 150°F.

Cargo oil deep tanks have been fitted in Nos 3 & 4 holds.

The vessel has been built in accordance with the approved plans.

The workmanship and materials are good.

All weather decks, watertight bulkheads and doors and shaft tunnel have been hose tested and found watertight.

A copy of the midship section of the vessel as built as copies of forging casting and steel testing certificates are enclosed.

Pireless fitted.

The amount of Entry Fee ... 200 : 90
Freeboard " 165 : 6.10.1931
Special Survey Fee ... £ 5:191
Travelling Expenses, if any 9 : 190
Fees applied for, 6.10.1931
Received by me, 12.10.1931

I am of opinion the Vessel should be Classed 100A1 with freeboard.

State whether the Vessel has been built under Special Survey

Yes.

Signature

A. McElashan.

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to Yokohama office. Date of Issue 13/11/31

Committee's Minute FRI. 13 NOV 1931

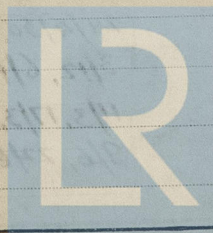
Character assigned + 100A1
with freeboard

+ L.M.C. 10.31 C.L.
Oil Eng. R.B. 100 lb.

write to
RA

Lloyd's A & C.P.

My

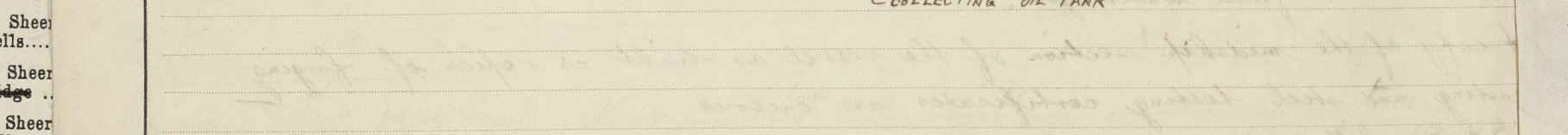


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Lloyd's Register Foundation

Part longitudinal framing at double bottom from frames 28 to 56 & 97 to 121. st. 4
Solid floors 12 feet apart 46. Top & bottom angles $3\frac{1}{2} \times 3\frac{1}{2} \times 48$ double.
Longitudinal bottom frames $7 \times 3\frac{1}{2} \times 44$ B.A. 2' 9" apart. Brackets to floors $2\frac{1}{2} \times 4\frac{1}{2} \times 3$ flange of vert.
" top " $7 \times 3 \times 36$ " " Vertical struts $10 \times 3\frac{1}{2} \times 50$
Intermediate brackets-centre line 18×46 , 3 flange, tank side $2\frac{1}{2} \times 9 \times 46$, 3 flange
Two side girders 44.

WING FUEL OIL	41.3	587.07	" 4 " " " " PORT	298.91
FORE PEAK	22.9	68.68	" " " " " STAR.	295.10
				594.01
1591.86				1599.86



Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	2nd "	3rd "
	44. 3. 21 H.A.G. 1051	45. 2. 16 H.A.G. 1053	45. 2. 14 H.A.G. 1054

PLATIN

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle 34.8

V (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 (SH) 3 Dk (SH) except in
after hold, brasser stem.

Official No. 35218; Signal Letters V. L. D. B. Is bottom of Vessel coated with cement No. if not g

Official No. 35218; Signal Letters V. L. D. B. Is bottom of Vessel coated with cement No. if not g

particulars of composition.....

PARTICULARS OF WATER BALLAST.—

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,		
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
	Total capacity of double bottom		(If necessary, furnish further information by sketch.)		

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

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Order for Special Survey No. 20

The Stee

Date 15TH FEBRY. 1930

Pages of _____ while _____

11/3, 11/3, 24/3, 6/4, 13/4, 13/4, 11/4, 21/4, 28/4, 20/4, 10/5, 17/5, 1/6

<p>Order for Special Survey No. <u>20</u></p> <p>Date <u>15TH FEBY. 1930</u></p>	<p>Dates of Surveys held while building</p> <p>24/4/30, 7/5, 12/5, 13/6, 10/7, 29/7, 1/10, 15/10, 21/10, 24/10, 30/10, 7/11, 13/11, 21/11, 3/12, 6/12, 10/12, 16/12, 22/12, 26/12, 22/1/31, 27/1, 2/2, 9/2, 12/2, 17/2, 26/2, 11/3, 17/3, 24/3, 6/4, 13/4, 15/4, 17/4, 27/4, 28/4, 30/4, 1/5, 4/5, 8/5, 11/5, 18/5, 28/5, 9/6, 22/6, 5/8, 20/8, 25/8, 28/8, 26/9, 1/10.</p> <p>Total No. of Visits <u>5</u></p>
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