

3 Decks.

IRON OR STEEL STEAMER.

No. 19242

Date of completion of report

Sept. 14 1901

State of Report is also sent on the Machinery of the Vessel

Port of

Glasgow

Received at London Office

Survey held at

Glasgow

Date, First Survey

21 Oct. 1900

Last Survey

16 September 1901

On the

S.S. KUMANO-MARU

THREE DECKED VESSEL.

Rig Schooner (2 masts)

TONNAGE under

3819.61

CLASS 100 A.1. Steel

Master S. W. Haswell

Year of appointment

(1) As Master in service of owner of present vessel - 1898
(2) As Master of this vessel - 1901

Built at

Glasgow

When built

1901

Launched 1st June

By whom built

The Fairfield Shipbuilding & Engineering Co. Ltd.

Owners

Nippon Yusen Kaisha

Managers

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

Residence as in Register Book.

Port belonging to

Japan

Surveyed while Building, Afloat, in Dry Dock

LENGTH on Deck	Feet.	Inches.	BREADTH—	Feet.	Inches.	DEPTH top of Floor to Upper Deck Beams	Feet.	Inches.	Power of	Horse.	No. of Decks with flat laid
per Rule	398	0	Moulded	48	6	Do. do. Main Deck Beams	27	2 1/2	Engines		2

Dimensions of Ship per Register, Length 400.2 breadth 48.7 depth 27.15 Moulded depth, ft. 30 ins. 0 To Upper Dk. Round up of Beam, Upper Dk. 12 ins.

FRAMING.						FORGINGS OR CASTINGS.					
	Inches in Ship	Inches in Ship	16ths or 20ths in Ship	Inches per Rule Or as Approved	16ths or 20ths in Ship		Inches in Ship	Inches in Ship	16ths or 20ths in Ship	Inches per Rule Or as Approved	16ths or 20ths in Ship
NAME, Angles, or L, E or F Bars for 1/2 length amidships	6	3 1/2	10	6	3 1/2	KEEL, Bar or Side Plates, depth and thickness	11 x 1 1/2	11 x 1 1/2	11 x 1 1/2	11 x 1 1/2	11 x 1 1/2
Do. for 1/2 at each end	6	3 1/2	9	6	3 1/2	STEM, moulding and thickness	11 x 3 1/8	11 x 3 1/8	11 x 3 1/8	11 x 3 1/8	11 x 3 1/8
Do. in way of Double Bottoms at Solid Floors	6	3 1/2	10	6	3 1/2	STERN-POST for Rudder do. do.	11 1/2 x 8	11 1/2 x 8	11 1/2 x 8	11 1/2 x 8	11 1/2 x 8
Do. " " at intermdt. Bkts.						" for Propeller	11 1/2 x 8	11 1/2 x 8	11 1/2 x 8	11 1/2 x 8	11 1/2 x 8
ANCE of Frames from moulding edge to building edge, all fore and aft		25		25		MAIN PIECE of Rudder, diameter at head	11	11	11	11	11
PERSED FRAME, Angles	4 1/2	3 1/2	9	4 1/2	3 1/2	" " at heel	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
SP FRAMING, depth of girder						RUDDER, how constructed	22 thick	22 thick	22 thick	22 thick	22 thick
ORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships						Can the Rudder be unshipped afloat?	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
in way of Engines and Boilers						KEELSONS & STRINGERS.					
thickness at the ends of vessel						CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate					
depth at 1/2 the half breadth, as per Rule						" Rider Plate					
height extended at the Bilges						" Bulb Plate to Intercoastal Keelson					
ORS & BRACKETS in Cell Dble Bottoms						" Horizontal Plates on Floors					
" Distance apart	25			25		" Angles					
TRE GIRDER, in Double bottom, depth and thickness	57	11	57	11		SIDE KEELSON, Angles					
" Angles, Top	4	4	10	4	4	" Bulb or Plate above floors, for lng.					
" Bottom	4	4	10	4	4	" Intercoastal Plate, for length					
GIRDERS, number and thickness	0	8	0	8		" Attached to outside Plating with Angle					
" Angles	3 1/2	3 1/2	9	3 1/2	9	BILGE KEELSON, Angles					
GIN PLATE, depth (exclusive of flange) and thickness	38	6 1/4	10	38	6 1/4	" Bulb or Plate above floors, for lng.					
" Angles	4	4	10	4	4	" Intercoastal Plate, for length					
R BOTTOM PLATING, breadth and thickness of Middle Line Strake	36	4 1/4	10	36	4 1/4	" Attached to outside Plating with Angle					
" in Engine and Boiler space	2 1/2	10	10	2 1/2	10	BILGE STRINGER Angles					
" Remainder in Holds	5	5	10	5	5	" Bulb Plate for length					
IS, Upper Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	10	6	10	10	6	" Intercoastal Plate for length					
" Angles on upper edge						" Attached to outside Plating with Angle					
Average space	50			50		SIDE STRINGER Angles					
IS, Middle Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	11	6	11	11	6	" Bulb or Intercoastal Plate, for lng.					
" Angles on upper edge						" Attached to outside plating with Angle					
Average space	50			50		Upper Deck Stringer Plates, br'dth & thickness					
IS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	11	6	11	11	6	" Angle on ditto					
" Angles on upper edge						" Tie Plates fore and aft, outside Hatchways					
Average space	50			50		" Deck. Iron or Steel, for lng.					
S, Hold, or Orlop, Plate or Tee Bulb						" Wood Deck. Material & thickness					
" Angles on upper edge						Middle Deck Stringer Plate, br'dth & thickness					
Average space						" Angles on ditto, No.					
S, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	8	5	9	8	5	" Tie Plates outside Hatchways					
" Angles on upper edge						" Diagonal Tie Plates on Bms, No. of prs.					
Average space	50			50		" Deck. Iron or Steel, for lng.					
S, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	9	5 1/2	9	9	5 1/2	" Wood Deck. Material & thickness					
" Angles on upper edge						Lower Deck Stringer Plate, br'dth & thickness					
Average space	50			50		" Angles on ditto, No.					
S, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	9	5 1/2	9	9	5 1/2	" Tie Plates, outside Hatchways					
" Angles on upper edge						" Deck. Material and thickness					
Average space	50			50		Hold, or Orlop Stringer Plate, br'dth & thickness					
PILLARS, In 'tween Deck, size and spacing	2 1/4	50	2 1/4	50		" Angles on ditto, No.					
" Hold	4 1/4	50	4 1/4	50		" Tie Plates outside Hatchways					
" Quarter 'tween Dks.	4 1/4	50	4 1/4	50		" Deck. Material and thickness					
" in Hold	4 1/4	50	4 1/4	50		Poop Deck Stringer Plate, breadth & thickness					
WEB-FRAMES, In Fore Body, No. and spacing	5	5 1/2	5	5 1/2		" Angle on ditto					
" br'dth. & thickness	18	10	18	10		" Tie Plates					
" No. of Side Stringers	3	18	10	18	10	" Deck. Material and thickness					
WEB-FRAMES, In E. & B. Space, No. & spacing	9	4 1/2	9	4 1/2		Bridge Deck Stringer Plate, br'dth & thickness					
" br'dth. & thickness	18	10	18	10		" Angle on ditto					
" No. of Side Stringers	3	18	10	18	10	" Tie Plates					
WEB-FRAMES, In After Body, No. and spacing	6	6 1/2	6	6 1/2		" Deck. Material and thickness					
" br'dth. & thickness	18	10	18	10		Forecastle Deck Stringer Plate, br'dth & thickness					
" No. of Side Stringers	3	18	10	18	10	" Angle on ditto					
" Size of Angles or Tee Bars to Web-Frames	6 1/2	4 1/2	14	6 1/2	4 1/2	" Tie Plates					
BRACKET PLATES to Stringers between Web Frames, depth and thickness	20	10	20	10		" Deck. Material and thickness					

PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.				BUTTS.								
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Single or Double.	Breadth of Lap.	Diam.	Spacing or to cr.	Double or Triple for what Length.	Diam.	Spacing or to cr.	Breadth.	Thickness.	Breadth.	For what Length.		
																		Inches.	Inches.
FLAT PLATE KEEL.....	36	14	13	13A	36	14	14	6	1	3 3/4	Full	1	3 1/2	19	19/20				
GABBOARD OF A Strake.....		11	9	9 B		11	11	5 1/2	7/8	3 1/2	Full	7/8	3 1/2			12	full		
State actual thickness in use of Double Bottom.		12	10	10 C		12	12	5 1/2	7/8	3 1/2	Full	7/8	3 1/2			12	full		
B "		11	9	9 D		11	11	5 1/2	7/8	3 1/2	Full	7/8	3 1/2			12	full		
C "		13	10	10 E		13	13	5 1/2	7/8	3 1/2	Full	7/8	3 1/2			12	full		
D "		14	11	11 F		14	14	5 1/2	7/8	3 1/2	Full	7/8	3 1/2			14	full		
E "		15	12	12 G		15	15	5 1/2	7/8	3 1/2	Full	7/8	3 1/2			14	full		
F "		14	11	11 H		14	14	5 1/2	7/8	3 1/2	Full	7/8	3 1/2			14	full		
G "		13	10	10 J		13	13	5 1/2	7/8	3 1/2	Full	7/8	3 1/2			12	full		
H "		12	9	9 K		12	12	5 1/2	7/8	3 1/2	Full	7/8	3 1/2			12	full		
J "		13	10	10 L		13	13	5 1/2	7/8	3 1/2	Full	7/8	3 1/2			12	full		
K "		15	9	9 M		15	15	5 1/2	7/8	3 1/2	Full	7/8	3 1/2			12	full		
L "		57	15 1/2	9		57	15 1/2	9				29	15 1/2	9		15 1/2	9		
M "																			
N "																			
O "																			
P "																			
Q "																			
R "																			
DOUBLING OF Flat Plate Keel																			
Length and thickness of Bilges.....																			
Length and thickness of Sheerstrakes.....																			
Length and thickness of Strake below.....																			
POOP SIDES.....		11 1/2				7		7		3	7/8	3 1/2							
BRIDGE SIDES.....																			
FORECASTLE SIDES.....																			
Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c. : <i>Siemens process</i>										Upper Deck (Butts, treble riveted for <i>full</i> length amidship. Stringer Plate (Straps, single, double or overlapped for <i>half</i> length amidship. Middle Deck (Butts, treble riveted for <i>full</i> length amidship. Stringer Plate (Straps, single, double or overlapped for <i>full</i> length amidship. Butts of Bilge & Side Stringers and Tie Plates, treble or double riveted? <i>Double</i> Inner Bottom Plating, riveting of Edges <i>Double</i> & <i>Single</i> Butts <i>Double</i> Centre Girder Butts, <i>Double</i> riveted Keelson Butts, <i>Double</i> riveted. Frames, riveted through Plates with <i>Iron</i> Rivets, about <i>6</i> inches apart. Rivets, state whether Iron or Steel <i>Iron</i> .									
FRAMES extend in one length from <i>mid line to margin plate & from margin plate to upper bridge, poop & forecastle decks.</i>										REVERSED FRAMES on floors and frames extend from <i>mid line to margin plate & from margin plate to upper deck or way frame</i>									
Masts, Spars, &c.										Masts, Spars, &c.									
LOWER MASTS.....										LOWER MASTS.....									
Bowsprit										Bowsprit									
Topmasts, Yards and Remainder of Spars										Topmasts, Yards and Remainder of Spars									
Rigging, Material and Size, Shrouds										Rigging, Material and Size, Shrouds									
Sails										Sails									
EQUIPMENT No. 43772 LETTER 'Y'										ANCHORS.									
Number of Certificate										Number of Certificate									
Weight, Ex. Stock										Weight, Ex. Stock									
Test, Per Certificate										Test, Per Certificate									
Description of Anchor										Description of Anchor									
Makers										Makers									
Where and when tested and Superintendent										Where and when tested and Superintendent									
CHAIN CABLES.										HAWERS AND WARPS.									
Number of Certificate										Number of Certificate									
Fathoms										Fathoms									
Size										Size									
Test per Certificate										Test per Certificate									
Weight of Chain Cable										Weight of Chain Cable									
Fathoms and Size per Rule										Fathoms and Size per Rule									
Description										Description									
Makers of Cables										Makers of Cables									
When and where tested, and Superintendent										When and where tested, and Superintendent									
Material										Material									
Fathoms										Fathoms									
Size										Size									
Test of Steel Wire										Test of Steel Wire									
Fathoms and Size per Rule										Fathoms and Size per Rule									
Boats										Boats									
Pumps										Pumps									
Windlass										Windlass									
Engine Room Skylights										Engine Room Skylights									
What arrangements for deadlights in bad weather?										What arrangements for deadlights in bad weather?									
Coal Bunker Openings										Coal Bunker Openings									
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c.										Number of Scuppers, and numbers and dimensions of Freeing Ports, &c.									
Ceiling in Holds, thickness and material										Ceiling in Holds, thickness and material									
Cargo Hatchways										Cargo Hatchways									
State size No. 1 Hatch (Forward)										State size No. 1 Hatch (Forward)									
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch										Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch									
No. of Breasthooks										No. of Breasthooks									
No. of Crutches										No. of Crutches									
Bulwarks, height above deck and description										Bulwarks, height above deck and description									
The above is a correct description										The above is a correct description									
Builder's Signature (there only)										Builder's Signature (there only)									

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case.)
M 24-9-09, M 24-10-09, M 7-11-01, M 10-11-01, M 22-11-01, M 27-11-01, E 12-11-01

Workmanship. Are the butts of plating planed or otherwise fitted? *planed*

Is the riveted work properly closed? *yes*

Are the liners between the frames and plates solid single pieces? *yes* Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *yes* Are the rivet holes well and sufficiently countersunk in the plate and punched from the facing surfaces? *yes* Do any rivets break into or through the seams or butts of plating? *a few*

Are the butts of Plating, Stringers, &c., properly shifted and strapped? *yes*

General Remarks (State quality of workmanship, &c.)

The workmanship is good. The vessel has been built in accordance with the approved plans, the Secretary's letters of the above date, and in general conformity to the Rules for the class contemplated.

The hand pumps, watertight doors and decks have been tested as required and found satisfactory.

This vessel is fitted with an installation of electric lighting.

The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *4.0* ft., R.Q.D. or Break *—* ft., Bridge Dk. *15.2* ft., Forecastle *4.0* ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated.

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) *2 Stk (Steel) & 1 Stk (Wood) & 1 Stk (Wood)*

Official No. ; Signal Letters

How are the surfaces preserved from oxidation? Inside *Portland Cement & Paint* Outside *Paint*

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system *Cell & Blm*

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
Double bottom, aft,	112 1/2	167	Fore peak tank,		55
Double bottom, forward,	146	299	After peak tank,		30
Double bottom, under Engines and Boilers,	98	314	Midship deep tank,	25.0	580
Double bottom, if under Engines only,			Other tanks, if fitted,		
Double bottom, if under Boilers only,			(If necessary, furnish further information by sketch.)		

State whether the above have been tested as required by the Rules *yes*

Order for Special Survey No. *3422*
Date *6/10/00*

Order for Ordinary Survey No. *1901*
Date *1901*

No. *416* in builder's yard.

1st. On the several parts of the frame, when in place, and before the plating was wrought

2nd. On the plating during the process of riveting

3rd. When the beams were in and fastened, and before the decks were laid

4th. When the ship was complete, and before the plating was finally coated or cemented

5th. After the ship was launched and equipped

1901. Oct. 24. 31. Nov. 5. 8. 13. 15. 24. 26. 29. Dec. 4. 10. 13. 14. 18. 1901. Jan. 9. 11. 14. 21. 24. 30. Feb. 5. 8. 13. 20. 22. 27. Mar. 6. 12. 19. 20. 22. 29. Apr. 4. 11. 18. 25. 29. 30. May. 5. 9. 13. 16. 17. 22. 24. 27. 28. 30. Jun. 1. 4. 6. 10. 12. 19. 24. 25. 27. 28. 30. Aug. 2. 6. 13. 16. 19. 20. 22. 23. 26. 30. Sep. 6. Total No. of Visits *76*

The amount of Entry Fee.....£ 5 : :
Special Survey Fee£ 35 : 9 :
Travelling Expenses, if any £ : :
Fees applied for, *11/9/1891*
Received by me, *12/9/1891*
11/9/1891

Where of opinion this Vessel should be Classed *100A.1. Steel*

With, or without Freeboard, as condition of Class *Without*

Committee's Minute *Glasgow, 16 SEP 1901*

Character assigned *100A1 (Steel) Lloyd's S.C.P.*

James B. Orr

Surveyor to Lloyd's Register of British and Foreign Shipping.