

## STEEL STEAMER OR MOTORSHIP.

No. 205

Received at London Office 25 AUG 1953

State if Report has been sent on the Freeboard of the Vessel noState if Report is sent on the Machinery of the Vessel yesDate of completion of report 28<sup>th</sup> April 1953 Port of Shimonoseki No.         Survey held at Nagasaki Date First Survey 11th July 1952 Last Survey 27th February 1953On the (State if Machinery fitted with or without Tonnage Openings) Steel Twin Screw motor vessel " ARITA MARU "State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Full Scantling State Type of Erections Forecastle, Bridge & PoopTONNAGE under Tonnage Deck... 6,644.54 CLASS State if with freeboard as condition of Class NO Built at Nagasaki, JapanDo. 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 459.34 Launched 5th December 1952 Yard No. 1430Total 6,644.54 Breadth (greatest moulded) B 62.34 Builders Nagasaki WorksGross Tonnage 7,655.50 Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 34.45 Owners Nippon Yusen KaishaRegister Tonnage 4,287.40 1st Longitudinal Number (L x D) = 15,824.26 Managers (Where necessary to be entered in Reg. Book)REGISTERED DIMENSIONS. FEET 2nd Numeral L x (B + D) = 44,459.52 ResidenceLength 467.58 Framing Depth "d," at middle of length. See Sec. 3 (1d) 21.2 Port of Registry TokyoBreadth 62.34 Proportions — Depth to Length — Uppermost continuous deck to top of keel 13.4 If surveyed while building, afloat, or in dryDepth 34.45 Draught Moulded 27.5 dock whilst 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.
FRAMES, Spacing amidships	800	✓	Bracket Floors, Frame	
" " from $\frac{3}{4}$ length amidships to Collision bulkhead	650	✓	" " Reversed Frame	
" " in peaks	600	✓	" " Vertical Struts	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	1,170 13.5 ✓
Frame Amidships, Angle, $\angle$ or $\square$ <u>1.0.A.</u> 300 90 <u>10/15</u> ✓			" " top Angles	welded ✓
" " Extends up to <u>2nd Deck</u> ✓			" " bottom Angles	welded ✓
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	1 9.5 ✓
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	995 13.5 ✓
Depth of Framing Girder	300	✓	" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem	welded ✓
Frames in Uppermost Continuous 'tween Decks, Angle, $\angle$ or $\square$ <u>1.0.A.</u> 200 90 <u>8/13.5</u> ✓			" " Vertical Angle to Tank side Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area	welded ✓
" " Second 'tween Decks, Angle, $\angle$ or $\square$ <u>1.0.A.</u> 125 75 10 ✓			" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem	continued 12 ✓
" " Third " " " " 300 90 <u>10/15</u> ✓			" " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area	ditto ✓
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem	230 40 11 ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	2,200 12 ✓
" " in peaks, Angle or $\square$ <u>with 90x90x10 reverse in Aft Peak</u> ✓			INNER BOTTOM PLATING.	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	welded	✓	Breadth and thickness of Middle Line Strake	1,370 13 ✓
State if Frame Joggled	UPPER TWEEN DECK ONLY	✓	Thickness of remainder in Holds	11.5 ✓
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	Yes	✓	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?	Yes ✓
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Yes	✓	BEAMS.	
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle, $\angle$ or $\square$ <u>1.0.A.</u> 200 90 <u>8/13.5</u> ✓	
Floors, Depth and thickness at mid-line in Holds			" " in way of Bridge, Angle, $\angle$ or $\square$ <u>1.0.A.</u> 150 90 <u>10/15</u> ✓	
Height of Brackets at side above base line at toe of frame			Spacing	800 ✓
Middle Line Keelson, on Floors, Angles, $\angle$ or $\square$ <u>1.0.A.</u> 200 90 <u>8/13.5</u> ✓			Second Deck, amidships, Angle, $\angle$ or $\square$ <u>1.0.A.</u> 230 90 <u>9/13</u> ✓	
" " Through Plate or Inter-costal Plate			Spacing	800 ✓
" " Foundation Plate on Floors			Third Deck, amidships, Angle, $\angle$ or $\square$	
" " Flat Plate Keel Angles			Spacing	
Keelsons, No. each side			Fourth Deck, amidships, Angle, $\angle$ or $\square$	
" thickness of Inter-costal Plate			Spacing	
" Angles			Poop Deck, Angle, $\angle$ or $\square$ <u>1.0.A.</u> 150 90 9 ✓	
DOUBLE BOTTOM.			Spacing	600 ✓
Solid Floors, thickness and spacing	11 800 ✓		Bridge Deck, Angle, $\angle$ or $\square$ <u>1.0.A.</u> 150 90 <u>8/13.5</u> ✓	
" " Are Frame and Reversed Frame joggled?	welded	✓	Spacing	800 ✓
Bracket Floors, breadth and thickness at middle line	Solid 11 ✓		Forecastle Deck, Angle, $\angle$ or $\square$ <u>1.0.A.</u> 150 90 12 ✓	
" " breadth and thickness at margin plate	Solid 11 ✓		Spacing	600 ✓

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## 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.
	ft. in.	ft. in.			ft. in.	ft. in.	
PILLARS, No. of Rows		2					
„ in 'tween Decks, Size and Spacing	No. 1	150x9	7.15	✓			
	No. 2	195x10	10.4	✓			
	No. 4	330x3.5	8.0	✓			
	No. 5	230x10.5	12.0	✓			
	No. 6	195x10	7.1	✓			
„ in Holds „ „ „	No. 1	270x12	7.15	✓			
	No. 2	200x15	10.4	✓			
	No. 3	450x16	6.4	✓			
	No. 4	430x15	6.4	✓			
	No. 5	390x15	12.0	✓			
	No. 6	370x14	12.0	✓			
Centre Line Bulkhead.							
Stiffeners and Spacing							
Plating, thickness of							
STRINGERS AND DECKS.							
Uppermost Continuous Deck.							
Stringer Plate, breadth and thickness in Wells	1,800	28	✓				
„ „ „ „ in way of	1,800	10.5	✓				
Bridge		11 in way of eng. opening	✓				
„ Angle in Wells	200	200	25	✓			
Thickness of Plating abreast Deck openings in way of Wells		28	✓				
Thickness of Plating abreast Deck openings in way of Bridge		9.5	✓				
Thickness of Plating within line of openings		10.5 in way of eng. opening	✓				
If Sheathed, material and thickness		9 in well	✓				
Second Deck.		7.5 in way of bridge	✓				
Stringer Plate, breadth and thickness in Wells		9.5 aft	✓				
		10.5 fore	✓				
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							
Thickness of Plating within line of openings							
If Sheathed, material and thickness							
Third Deck.							
Stringer Plate, breadth and thickness							
If Plated, state thickness							
Fourth Deck.							
Stringer Plate, breadth and thickness							
If Plated, state thickness							
Poop Deck.							
Stringer Plate, breadth and thickness		10	✓				
Plating, Sheathing, material and thickness		10	no sheathing	✓			
Bridge Deck.							
Stringer Plate, breadth and thickness	1,800	18.5	✓				
Plating, Sheathing, material and thickness		18.5	✓				
Forecastle Deck.							
Stringer Plate, breadth and thickness		10	✓				
Plating, Sheathing, material and thickness		10	✓				

## 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.	
	Breadth.	Thickness.	Thickness.	Thickness.		SINGLE OR DOUBLE.	RIVETS.	No. OF ROWS OF RIVETS.	RIVETS.
Flat Plate Keel	1,370	23	23	23	✓	Double	Diam. 25 Spacing 115	Welded	✓
„ Dblg. (if any)	2,100	18.5	18	15	✓	Double	25 115	Welded	✓
Bottom Plating, No. of Strakes	2,100	20 in wells	15	16	✓	Double	25 115	ditto	✓
Bilge Plating, No. of Strakes	1,600	18.5	15	16	✓	Double	25 115	ditto	✓
Side Plating, No. of Strakes	1,600	16	15	12	✓	RR. Alternate seams	22 100	ditto	✓
Upper Deck, Sheer-strake in Wells	1,600	25	12	12	✓	Double	22 100	ditto	✓
Upper Deck, Sheer-strake in Bridge	1,650	16			✓	welded		ditto	✓
Strake below Sheer-strake in Wells	1,500	17 fore	12	12	✓	Double	22 100	ditto	✓
Strake below Sheer-strake in Bridge	1,250	16 aft			✓	Double	22 100	ditto	✓
Poop side Plating		16		10	✓	welded			✓
Bridge Side Plating		19 Sheer			✓	Double	25 138	welded	✓
Forecastle Side Plating		16			✓	welded			✓

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3c) 8 ✓

Deck next below 10

As per Rule 7

## STIFFENERS.

	Plating Thickness.	VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper 'tween decks	65-7	125x75x7 I	700	✓	
„ „ Second „					
„ „ Third „					
„ „ Holds	125-75	300x40x1/3 I	700	✓	
COLLISION „ (in Hold)	13-65	125x75x10 I	600	9.5 H.	1,800
AFTER PEAK „	13-8	125x75x10 I	700	9.5 H.	1,800

## FORGINGS AND CASTINGS.

	Casting or Forging	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	Forged steel to 4 M. W.L.	260x75	Nippon Steel	As approved.
STEM	Steel casting above 4 M. W.L.		As approved.	
STERN FRAME	Propeller Post	Steel casting	ditto	
	Rudder „	Steel casting	ditto	As approved.
Speed of Vessel		17 knot		
RUDDER—Type		Semi-balanced		
„ A x D		18-21 H x 89 H = 164 H <sup>3</sup>		
„ Diam. of head		330 mm.		
„ Mainpiece at top pintle	Steel casting	40 H x 100 H	As approved.	
„ „ heel	Steel casting	40 H x 100 H		
„ how constructed		plate + Diaphragm		
„ 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) Yawata Iron &amp; Steel Works

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







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).

The following plans are enclosed:

AS Fitted  
Midship Section  
Construction Profile and Deck plans (2-Sheets)  
W/T & O/T Bulkheads  
Stern Casting  
Shaft Bracket  
Stem  
Rudder  
Shell expansion  
Double bottom Plans (2-Sheets)  
Both peak Construction  
Upper bridge deck W.S.P. Girder & House under  
Welding detail

Forging Certificates:

Stem  
Stern cut up  
Stern frame  
Shaft bracket  
Rudder stock  
Rudder frame

Sister Ship:

T.M.T. ASO MARU (S.N. 1421), T.M.T. ARIMA MARU (1424), T.M.T. TOMISHIMA MARU (1426), T.M.T. ANATA MARU (1428)

PARTICULARS OF ELECTRIC WELDING (if employed) W.T. & O.T. Bhd. pltg & Stiffeners - Tunnel - Tank top plating, Floors & Engine seating, Frames to shell amidships (frames riveted at ends), Deck plating, Beams & Girders. All shell pltg batts. Side shell partly welded, all casings, Deck houses, Superstructure decks.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book

Cruiser Stern - D.F. - ESD - GYC - Radar - LLOYD'S A.C.P. - Part Elect welded  
Fitted for O.T. F.P. above 150°F. To be carried in all D.B. (except No. 4) Wing Tanks  
— Vegetable oil to be carried in D.T.S. abaft E.R.

RADAR Equipment (State if fitted Sperry Marine Radar  
State Type or Pattern No. 14K-2 Mod-0  
indicator No 701  
Transmitter No 839

State Maker Sperry Gyro Scope Co.  
Name and/or of Supplier T. Kyo Kei Ki Seizo Sha Co.

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

1st Bower	82	1	22	K.N.	NO. Y-3039	20th March 1952
2nd "	82	1	23	K.N.	NO. Y-3891	24th June 1952
3rd "	81	2	8	K.N.	NO. Y-3892	24th June 1952

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 23.11 ft., R.Q.D. — ft, Bridge 202.11 ft, Forecastle 36.85 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

Official No. 70267 Signal Letters JN4B Extreme Breadth over Belting (Circ. 1611)

Over all Length 495.24 (Circ. 1703)

No. and Material of Decks

2 Decks Steel

Parts of Bottom of Vessel coated with cement or approved composition

F & A. Peaks NO. 4 D.B.T. Bilges

Particulars of composition (if fitted) and of approval

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284  
Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted	Length. M.	Water Capacity.	Where Fitted	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	36	341 (31.104)	Fore peak tank,	10	78
Double bottom, under Engines and Boilers,			After peak tank,	10	215
Double bottom, if under Engines only,	47.24	295 OIL	Deep tanks aft, (Bunkers)	58	17.6
Double bottom, if under Boilers only,	10.50	36 x 2	Deep tank, forward, (Cargo oil)	50	1.382 OIL
Double bottom, forward,	60	680	Other tanks, if fitted, Centre E.O. Wing Tank (Bunkers)	13.6	100 OIL
Total length (if continuous) and Capacity	114 M. 237.4 ft.	10215	(If necessary furnish further information by sketch)		

Order for Special Survey No.

Date

Dates of Surveys held while building

1952  
July, 11, 16, 17, 19, 30 Aug 11, 18, 23, 28, 30 Sep. 5, 20 Oct. 3, 6, 7, 21, 24, 27, 31 Nov 3, 5, 7, 11, 13, 14, 17, 18, 19, 20, 21, 24, 25, 26, 27, 28, 29  
Dec. 1, 2, 3, 4, 5, 6, 15, 19, 23, 26, 27  
1953  
Jan. 7, 8, 9, 10, 12, 16, 19, 24, 26, 28, 29, 30 Feb. 3, 4, 7, 9, 14, 16, 23, 24, 25, 26, 27

Total No. of Visits 70