

STEEL ~~STEAMER~~ ~~OR~~ MOTORSHIP.

1861 844 6

Received at London Office

9 APR 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 *19th January 1931*Port of *Kobe*No. *7207*Survey held at *Kobe*Date First Survey *7th March 1930*Last Survey *20th January 1931*

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

*Single Screw m.s. RYOYO MARU*

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

*Full Scantling*State Type of Erections *P.B. & F.*TONNAGE under Tonnage Deck... *5307.87*CLASS *+100A1*State if with freeboard as condition of Class *no*Built at *Kobe*

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 415*

FEET.

Launched *24th September 1928* and No. *563*

Total

Breadth (greatest moulded) *B 56*Builders *Kawasaki Dockyard*Gross Tonnage *5973.80*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 31.8*Owners *Sogo Kisen Kaisha*Register Tonnage *3649.87*1st Longitudinal Number (L x D) *= 13201*

Managers

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

## REGISTERED DIMENSIONS.

FEET.

Length *415.0*Framing Depth "d," at middle of length. See Sec. 3 (1d) *19.93*

Residence

Breadth *56.0*Proportions—Depth to Length—Uppermost continuous deck to top of keel *13.05*Port of Registry *Akashi*Depth *31.81*Do. Long Bridge to top of keel *10.49*

If surveyed while building, afloat, or in dry dock

Brought Moulded *24.92**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.
FRAMES, Spacing amidships	33"		Bracket Floors, Frame	6" x 3 1/2" x 36	
" " from 1/2 length to Collision bulkhead	27"		" " Reversed Frame	6" x 3" x 36	
" " in peaks	24"		" " Vertical Struts	10 x 3 1/2" x 3 1/2" x 42	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	44 x 66" x 54	
Frame Amidships, Angle <i>E</i> or <i>N.B.S.</i>	12 x 3 1/2" x 46		" " top Angles	3 1/2" x 3 1/2" x 52	
" " Extends up to	second deck		" " bottom Angles	4 x 4 x 58	
Reversed Frame Amidships, Angle	-		Side Girders, No. each side and thickness	one, 40	
" " Extends up to	-		Margin Plate depth (excl. of flange) and thickness	41 x 54	
Depth of Framing Girder	12"		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	3 1/2" x 3 1/2" x 46	
Frames in Uppermost Continuous 'tween Decks, Angle <i>E</i> or <i>N.B.S.</i>	8 x 3 1/2" x 38		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	ditto 45 x 5 x 46 at dup frames.	
" " Second 'tween Decks, Angle <i>E</i> or <i>N.B.S.</i>	-		" " Gussets, spacing and scantling abaft 1/2 len. from stem	Continuous, 14"	
" " Third " " " "	-		" " Gussets, spacing and scantling forward 1/2 len. from stem	ditto	
Framing in Peaks, Angle <i>E</i> or <i>N.B.S.</i>	8 x 3 1/2" x 38		Tank Side Brackets, height above base line at toe of Frame and thickness	81" x 49" x 46 at 27" spacing	at height 78"
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8" Riv 5 1/4" etc		INNER BOTTOM PLATING.		
State if Frame Joggled	yes		Breadth and thickness of Middle Line Strake	52" x 50	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	Dep for system, 11 x 3 1/2" x 52" N.B.S. with 6 x 3 1/2" x 50 Riv. Spacing: 12" girders. Stringers as per Rule.		Thickness of remainder in Holds	44	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	Three Strakes next keel maintained midship thickness & coll. bds. Bottom frames 5 x 5" double ribs at 8 1/2" diam apart. Add girders as per Rule.		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	
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships		
Height of Brackets at side above base line at toe of frame			" " in Wells, Angle <i>E</i> or <i>N.B.S.</i>	9 x 3 1/2" x 42	
Middle Line Keelson, on Floors, Angles, <i>E</i> or <i>N.B.S.</i>			" " in way of Bridge, Angle <i>E</i> or <i>N.B.S.</i>	10 x 3 1/2" x 40	
" " Through Plate or Intercoastal Plate			Spacing	Every frame	
" " Foundation Plate on Floors			Second Deck, amidships, Angle <i>E</i> or <i>N.B.S.</i>	10 x 3 1/2" x 40	
" " Flat Plate Keel Angles			Spacing	Every frame	
Side Keelsons, No. each side			Third Deck, amidships, Angle <i>E</i> or <i>N.B.S.</i>		
" " thickness of Intercoastal Plate			Spacing		
" " Angles			Fourth Deck, amidships, Angle <i>E</i> or <i>N.B.S.</i>		
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing	40. Every fr. in after hold, mach. spca. + bridge L. alt. fr. in h's hold every third frame elsewhere		Poop Deck, Angle <i>E</i> or <i>N.B.S.</i>	9 x 3 1/2" x 52. 8 x 3 x 36 at alt. & every respectively	
" " Are Frame and Reversed Frame joggled?	no, space		Bridge Deck, Angle <i>E</i> or <i>N.B.S.</i>	9 x 3 1/2" x 40	
Bracket Floors, breadth and thickness at middle line	33" x 43		Spacing	Every frame	
" " breadth and thickness at margin plate	42 x 43		Forecastle Deck, Angle <i>E</i> or <i>N.B.S.</i>	11 x 3 1/2" x 44	
			Spacing	at alternate frames	

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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.
<b>PILLARS, No. of Rows.....</b>	<i>Two rows</i>			Stringer Plate, breadth and thickness in way of Bridge .....	<i>48 x 38</i>		
"    in 'tween Decks, Size and Spacing.....	<i>of widely spaced pillar</i>		<i>See approved plans.</i>	Thickness of Plating abreast Deck openings in way of Wells .....	<i>36</i>		
"    "    "    "    "    "				Thickness of Plating abreast Deck openings in way of Bridge .....	<i>34</i>		
"    in Holds    "    "    "				Thickness of Plating within line of openings...	<i>34</i>		
"    "    "    "    "    "				If Sheathed, material and thickness .....	<i>-</i>		
<b>Centre Line Bulkhead.</b>				<b>Third Deck.</b>	<i>-</i>		
Stiffeners and Spacing.....	<i>-</i>			Stringer Plate, breadth and thickness.....	<i>-</i>		
Plating, thickness of .....	<i>-</i>			If Plated, state thickness.....	<i>-</i>		
<b>STRINGERS AND DECKS.</b>				<b>Fourth Deck.</b>	<i>-</i>		
<b>Uppermost Continuous Deck.</b>				Stringer Plate, breadth and thickness.....	<i>-</i>		
Stringer Plate, breadth and thickness in Wells	<i>58 x 78</i>			If Plated, state thickness .....	<i>-</i>		
"    "    "    "    in way of Bridge	<i>58 x 40</i>			<b>Poop Deck.</b>	<i>36 x 36</i>		
"    Angle in Wells .....	<i>6 x 6 x 75</i>			Stringer Plate, breadth and thickness .....	<i>34</i>		
Thickness of Plating abreast Deck openings in way of Wells .....	<i>68</i>			Plating, Sheathing, material and thickness ...	<i>34</i>		
Thickness of Plating abreast Deck openings in way of Bridge .....	<i>36</i>			<b>Bridge Deck.</b>	<i>65" x 52</i>		
Thickness of Plating within line of openings...	<i>44</i>			Stringer Plate, breadth and thickness.....	<i>43, one stringer 48 2 1/2" wood in part.</i>		
If Sheathed, material and thickness .....	<i>-</i>			Plating, Sheathing, material and thickness ...	<i>35 x 36</i>		
<b>Second Deck.</b>				<b>Forecastle Deck.</b>	<i>34</i>		
Stringer Plate, breadth and thickness in Wells...	<i>48 x 40</i>			Stringer Plate, breadth and thickness.....			
				Plating, Sheathing, material and thickness ...			

## SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged? <i>no</i>	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 .....	51	.81	.71	.71		Double	1	3 3/4	Quadruple	1"	4"	Lapped	
„ DBLG. (if any)	-	-	-	-									
BOTTOM PLATING, No. of Strakes ... 4 .....		.66	.48	.52 + .52		Double	7/8	3.3	Quadruple	7/8	3 1/2	Lapped	
BILGE PLATING, No. of Strakes ..... 4 .....		.66	.54	.58		Double	7/8	3.3	Quadruple	7/8	3 1/2	Lapped	
SIDE PLATING, No. of Strakes ..... 4 .....		.66	.46	.46 + .50		Double	7/8	3.3	Triple	7/8	3 1/8	Lapped	
UPPER DECK, Sheer- strake in Wells .....	51	.92	.46	.46		Double	1"	3 3/4	Quintuple	1"	4 1/2	Lapped	
UPPER DECK, Sheer- strake in Bridge ...	51	.66	-	-		Double	7/8	3.3	Triple	7/8	3 1/2	Lapped	
STRAKE BELOW Sheer- strake in Wells .....	51	.80	.46	.46		Double	7/8	3.3	Quadruple	1"	4	Lapped	
STRAKE BELOW Sheer- strake in Bridge ...		.66	-	-		Double	7/8	3.3	Triple	7/8	3 1/8	Lapped	
POOP SIDE PLATING .....			-	.38		Single	3/4	3.0	Single	3/4	2 5/8	Lapped	
BRIDGE SIDE PLATING ...		.62	-	-		Double	7/8	3.3	Triple	7/8	3 1/8	Lapped	
FOREC'TLE SIDE PLATING			.42			Single	3/4	3.0	Single	3/4	2 5/8	Lapped	

## WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
Extending to Upper Deck (Sec. 3 c)..... ,, Deck next below ..... As per Rule.....				
<b>MIDSHIP BULKH'D</b> , Upper tween decks ,, " Second ,, " Third ,, " Holds				
<b>BOW COLLISION</b> , (in Hold)				
<b>AFTER PEAK</b>				

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Appleby Iron Co. Ld., Lanarkshire*  
*Steel Co. Ld., Scottish Iron Steel Co. Ld., Steel Company of Scotland Ld., Cornish Iron Co. Ld., Dorman Long & Co. Ld., Cargo Steel*  
*Iron Co. Ld., Pease Partners Ld., David Colville & Son Ld., Bolton Vaughan & Co. Ld., Jones & Laughlin Pittsburg*  
 Has the Steel been tested as required by the Rules? *Yes.*



EQUIPMENT No. 37918												LETTER af	ANCHORS. 4		
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.			
1029	1st Bower ...	65	3	6	<del>65</del>			51	10	0	0	64.83	Halls Patent	Kobe Steel Works	Kobe 26.7.30 ADM.
1031	2nd „ ...	65	3	0	<del>ditto</del>			51	7	2	0		ditto	ditto	ditto
1030	3rd „ ...	65	2	14	<del>ditto</del>			51	7	2	0		ditto	ditto	ditto
	Collective weight.	197	0	20								194½			
1034	Stream .....	19	0	27	5	0	2	20	1	3	14	19.0	Ordinary Stock	ditto	Kobe 2.8.30 ADM.

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.	Statutory.	Break- ing.	Supplied.	Per Rule.	Length. Diam.						Length. Cir.	Ins.	Tons.	Length. Cir.
1722	272 1/2 2 5/16	96 1/4	134 3/4	757.3.17	720.3.0	270	2 5/16	Stud Osaka Chain Works.	Osaka 16.7.30	Y. Jo.	TOWLINE	120	5 1/2	86.95	120 5 1/2
											HAWSERS & WARPS	Two 90	8"		Two 90 8
												Two 90	7"		Two 90 7
Iron Stream or Steel Wire	90 5	-	81.7	-	-	90	5	Special Flen Blue wire.	Tokyo Sanko Kasei Co.	Kawasaki, 26.2.29 Sept 1930					

Steering Gear, Steam Hydro-Elect. Helo-Shaw type	Steering Gear, Hand Ordinary double thread gear
Boats Two 26' lifeboats & one 18' launch	Steering Chains, Size and Test. Selenmotor gear
Ceiling in Holds, thickness and material 2 1/2" pin or 2" battens	Windlass Electric. Clark Chapman
Cargo Hatchways.-(Upper Deck) 27" above deck, side coaming .46"	Cargo Battens, thickness, material and spacing 6" x 2" Vertically fitted
Size of No. 1 Hatchway (Forward) 29'3" x 20'	Thickness of Hatches 2 1/2" throughout
No. 2 30'3" x 20'	No. 3 30'3" x 20'
No. 4 22' x 20'	No. 5 30'3" x 20'
No. 6 30'3" x 20'	
Number of Shifting Beams and Fore and Afters Six to nos. 1 to 3, 5 & 6, four in hold	
Builder's Signature <i>for Kawasaki Dockyard Co., Ltd.</i>	

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

This vessel has been built in accordance with the approved plans and instructions as well as with the printed Rules. The materials and workmanship are satisfactory; the former have been tested as required by the Rules. The freeboard has been verified & cut in. The double bottom deep tanks, peak tanks, ullage and cofferdams, bulkheads, tunnel weather decks, scupper, watertight doors & tarpaulins have been tested as required by Rules. The requirements of section 20 of the Rules have been complied with and oil fuel is to be carried in the double bottom tanks and the fore peak tank.

The deep tank abaft the engine room has been fitted for the carriage of oil cargo in bulk, flash point above 150°F.

In my opinion the vessel is entitled to the notations: "Fitted for oil fuel 1.31, flash point above 150°F." "Lloyd A & C" "Fitted for carrying cargo oil (1931), flash point above 150°F, in deep tank" "Wireless Telegraph" "Electric Light" "On turn deck bulkhead dismasted with", 5' 3" to upper deck, 3' 3" to 2nd deck.

The amount of Entry Fee .....	¥: 90.00	Fees applied for,	22/1/1931
FREEBOARD SURVEY	165.-		
Special Survey Fee.....	¥ 5240.00	Received by me,	6/2/1931
incl. machinery			
Travelling Expenses, if any	¥: 129.00		
State whether the Vessel has been built under Special Survey	<i>yes</i>	I am of opinion the Vessel should be Classed <b>+100A1</b>	
Hull & Keel built by <i>Kawasaki Dockyard</i>		Signature <i>Frederick M. Parker</i>	
Certificate to be sent to <i>Kawasaki Dockyard</i>	Date of issue <i>17/4/31.</i>	Surveyor to Lloyd's Register of Shipping.	

Committee's Minute	<b>FRI. 17 APR 1931</b>
Character assigned	<b>+100A1</b>
Fitted for Carrying oil (1.31)	
F.P. above 150°F. in Deep Tank aft.	
+ L.M.C. 1.31	
Oil Eng. D.B. 100 lb.	
Lloyd's A & C	
Write the	
"Baker"	



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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.)

This vessel is similar to *Arano S.B. Co. No 270, Sogo Maru*  
The following plan and papers are forwarded with this report.

- ① Midship Section (as built)
- ② Profile and Deck Plan (as built) 2 sheets
- ③ Steel Admin notes
- ④ Copies of Fitting certificates.

note: Lengths of Poop & Forecastle.

These lengths have been measured to the poop and forecabin bulkheads respectively, neglecting ladderway rooms (see Plans) while Circular No 1551 states that the lengths of the poop and forecabin are to be measured to the forward and after ends, respectively, of that portion of the deck which extends from side to side of the ship, it would appear that the strict wording of the circular cannot reasonably be applied in this case.

Particulars of Drop/Tests of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	2nd "	3rd "	Surveyor's initials	No. Cert.	Date of Test
	38.1.7	37.3.12	37.3.15	A.D.M.	1029	26.7.30
			18 0 0	A.D.M.	1031	26.7.30
				A.D.M.	1032	26.7.30
				A.D.M.	1034	2.8.30

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 33.8 ft., R.Q.D. ft., Bridge 118.3 ft., Forecastle 39.2 ft.  
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated *NO*

No. and Material of Decks (this information is to be given as it should appear in the Register Book) *2 decks Stl.*

Official No. 36553 ; Signal Letters *V.J.D.T.*

particulars of composition Is bottom of Vessel coated with cement *Yes* if not give

#### PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	132.0	445.7	Fore peak tank,	25.70	264.9
Double bottom, under Engines and Boilers,	38.5	181.4	After peak tank,	16.0	58.0
Double bottom, if under Engines only,	175.0	766.4	Deep tank, aft,	41.25	1277.2
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
			(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. 35

Date 22nd October 1929

Dates of Surveys held while building

March 1930: 7.  
April " 21  
May " 9, 15, 16, 23, 29, 30.  
June " 3, 6, 8, 13, 19, 25, 30.  
July " 4, 9, 11, 18, 24, 29.

August 1920: 5, 13, 19, 26, 29.

September 1921: 8, 10, 12, 13, 15, 16, 17, 18, 20, 22, 24, 29.

October " 1, 7, 10, 15, 21, 29.

November " 4, 6, 27.

December " 9, 11, 16, 18.

January 1931: 7, 8, 14, 16, 19, 20.

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Total No. of Visits 58

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