

STEEL STEAMER or MOTORSHIP.

Received at London Office 18 FEB 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

20th January 1931

Port of

Yokohama

No. 4640.

Survey held at

Yokohama

Date First Survey

6th March 1930

Last Survey

23rd Jan. 1931.

On the

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

Steel Screw Motorship "SOYO MARU"

State Type

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

Full Scantling

State Type of Erections

Poop bridge & Fole

TONNAGE under Tonnage Deck...

5455.73

CLASS

100A1

State if with freeboard as condition of Class

FEET.

Built at

Yokohama

ENCLOSED SPACES ABOVE DECK Do. of space or spaces between Tonnage Dk. and Upper Dk.

625.73

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

L 415' 0"

Launched 4th October 1930 Yard No. 270

Builders Otsano Shipbuilding Co. Ltd.

Owners Toyo Kisen Kaishiki Kaisha

Managers

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

Residence

Port of Registry Yokohama

If surveyed while building, afloat, or in dry dock

Building

Total

Tonnage

6081.46

Tonnage

3680.66

STERED DIMENSIONS. FEET.

415.00

56.00

31.80

Breadth (greatest moulded)

B 56' 0"

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' 9" 66

1st Longitudinal Number (L x D) = 13199

2nd Numeral L x (B + D) = 36439

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

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

13.05

Do. Long Bridge to top of keel

10.49

Draught Moulded

25' 2" 16

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.
Spacing amidships	33		Bracket Floors, Frame	6 1/2 3 1/2 .36	
" from 3/4 length to Collision bulkhead	27		" " Reversed Frame	6 3 .36	
" in peaks	24		" " Vertical Struts	10 x 3 1/2 x 3 1/2 .42	
FRAMING.			Centre Girder, depth and thickness amidships	44 .54	
Amidships, Angle, \angle or \square	12 3 1/2 .46		" " top Angles	3 1/2 3 1/2 .52	
" Extends up to	2nd deck		" " bottom Angles	4 4 .58	
ed Frame Amidships, Angle			Side Girders, No. each side and thickness	One 44	
" Extends up to			Margin Plate depth (excl. of flange) and thickness	37 .54	
of Framing Girder	12		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	3 1/2 3 1/2 .42	
in Uppermost Continuous 'tween Decks, Angle, \angle or \square	8 3 1/2 .38		" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem	3 1/2 3 1/2 .49	
" Second 'tween Decks, Angle, \angle or \square			" " Gussets, spacing and scantling abaft 1/4 len. from stem	21 .44	
" Third " " " "			" " Gussets, spacing and scantling forward 1/4 len. from stem	- ditto -	
g in Peaks, Angle, \angle or \square	8 3 1/2 .38		Tank Side Brackets, height above base line at toe of Frame and thickness	78 .50	
er and Spacing of Rivets through Frame and Shell Plating amidships	7/8 5/4		INNER BOTTOM PLATING.		
Frame Joggled	Yes.		Breadth and thickness of Middle Line Strake	52 .50	
ARRANGEMENTS (Sec. 7), state system and particulars	Deep frames & stringers as per approved plan		Thickness of remainder in Holds	44	
THENING OF BOTTOM FOR D. State Particulars	Bottom plating .62 from 3/5 to collision bulkhead		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	
BOTTOM.	Bottom frames 6 x 6 x .50		BEAMS.		
Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships in Wells, Angle, \angle or \square	9 3 1/2 .42	
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, \angle or \square	10 3 1/2 .40	
Line Keelson, on Floors, Angles, \angle or \square			Spacing	33	
" " Through Plate or Intercostal Plate			Second Deck, amidships, Angle, \angle or \square	10 3 1/2 .40	
" " Foundation Plate on Floors			Spacing	33	
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, \angle or \square		
elons, No. each side			Spacing		
" thickness of Intercostal Plate			Fourth Deck, amidships, Angle, \angle or \square		
" Angles			Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle, \angle or \square	9 3 1/2 .52 24' alt. fr. 8 3 .36 33' even	
Solid Floors, thickness and spacing	40 every 3rd frame except under engines & at ends every frame		Spacing		
" Are Frame and Reversed Frame joggled?	No.		Bridge Deck, Angle, \angle or \square	9 3 1/2 .40	
Bracket Floors, breadth and thickness at middle line	33 .44		Spacing	33	
" breadth and thickness at margin plate	45 .44		Forecastle Deck, Angle, \angle or \square	11 3 1/2 .44	
			Spacing	alternate frames	

78120-295600-355600

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.....	2					48	38	
" in 'tween Decks, Size and Spacing.....	<i>Wide spaced pillars and girders as per approved plan.</i>						36	
" " " " " "							34	
" in Holds " "							34	
" " " " " "								
Centre Line Bulkhead.								
Stiffeners and Spacing.....								
Plating, thickness of								
STRINGERS AND DECKS.								
Uppermost Continuous Deck.								
Stringer Plate, breadth and thickness in Wells	58	78						
" " " " in way of Bridge	58	(X)		40 (see Cable (ratchet))				
" Angle in Wells	6	6	775					
Thickness of Plating abreast Deck openings in way of Wells		68						
Thickness of Plating abreast Deck openings in way of Bridge		36						
Thickness of Plating within line of openings...		44	34					
If Sheathed, material and thickness								
Second Deck.								
Stringer Plate, breadth and thickness in Wells...	48	40						
Stringer Plate, breadth and thickness 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		36	36					
Plating, Sheathing , material and thickness ...							34	
Bridge Deck.								
Stringer Plate, breadth and thickness.....		59	52					
Plating, Sheathing , material and thickness ...		48	44					
Forecastle Deck.								
Stringer Plate, breadth and thickness.....		35	36					
Plating, Sheathing , material and thickness ...							34	

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			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.								
FLAT PLATE KEEL	51	.82	.72	.72		Double	1	4	4	1	4	
„ DBLG. (if any)		✓				✓						
BOTTOM PLATING, No. of Strakes4.....)	79	.66	.62	.48		Double	7/8	3 1/2	4-3	7/8	3 1/2	
BILGE PLATING, No. of Strakes9.....)	73	.66	.48	.52		„	7/8	3 1/2	4-3	7/8	3 1/2	
SIDE PLATING, No. of Strakes9.....)	79	.66	.46	.46		„	7/8	3 1/2	3	7/8	3 1/2	
UPPER DECK, Sheer-strake in Wells.....)	51	.92	✓	✓	Run laps (enlth)	„	1	4	5	1	4	
UPPER DECK, Sheer-strake in Bridge ...)	51	.66	.46	.46		„	7/8	3 1/2	4	7/8	3 1/2	
STRAKE BELOW Sheer-strake in Wells.....)	59	.80				„	1	4	4	1	4	
STRAKE BELOW Sheer-strake in Bridge ...)	59	.66	.46	.46		„	7/8	3 1/2	4-3	7/8	3 1/2	
POOP SIDE PLATING	48			.40		Single	3/4	3	1	3/4	2 5/8	
BRIDGE SIDE PLATING ...	49	.62				Double	7/8	3 1/2	3	7/8	3 1/8	
FORECASTLE SIDE PLATING	48		.42			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)	6 APB & U.D.
" Deck next below	2
As per Rule	7 rule

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
No 79					
MIDSHIP BULKHEAD, Upper tween decks	26	4 1/2 x 3	34	27	
" " Second "					
" " Third "					
" " Holds	42-30	11 x 3 1/2	48	27	2 1/2 x 40 plate
COLLISION " (in Hold)	48-30	9 x 3 1/2	50	24	10 x 3 1/2 x 44 6 ft apart
AFTER PEAK " " 	36-32	10 x 3 1/2	50	24	

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar				
STEM	<i>Rolled steel</i>	10 1/2 x 2 3/4	Oshima S.S. Co.	
STERN FRAME {	Propeller Post	<i>Cast steel</i>	12 1/2 x 2 3/4	Oshima Steel Works
	Rudder "	"	"	As approved plan.
RUDDER—A x D		438		
Speed of Vessel		12 knots		
RUDDER mainpiece at head ...				
" " heel ...				
" how constructed	<i>cast in one piece</i>			
" double or single plate	Double	54		
" coupling, vertical or horizontal	<i>Vertical</i>			

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture). *Open Hearth*
The Lanarkshire Steel Co. Ltd. Cargo Fleet Iron Co. David Colville & Sons. Dorman Long & Co. Gosses Iron Co. Parry & Partners Ltd. The Steel Company of Scotland Ltd. Vereinigte Stahlwerke AG. S. Scottish Iron & Steel Co. Osano Shipbuilding Co. Tokyo Kasei K.K. Oshima Steel Works
 Has the Steel been tested as required by the Rules? *Yes.*

EQUIPMENT No. 37,925.										LETTER at	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.
1025	1st Bower ...	65	2	22				51	7	2	0
1026	2nd " ...	65	2	26				51	7	2	0
1027	3rd " ...	65	1	20				51	5	0	0
	Collective weight.	196	3	74							
1028	Stream	19	1	15	5	0	19	20	6	1	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.
	Fathoms. Ins.	Tons.	Tons.	Cwts. qrs. lbs.	Cwts.	Fathoms. Ins.							Fathoms. Ins.		
1727	270 1/2 2 3/16	96 1/4	134 1/4	759.2.6	720 3/4	270	2 5/16	270	Stud Link	Osaka Chain Works	Kobe 4/8/30 J.P. 6/8/30	TOWLINE	120 5 1/2	93	
												HAWSERS & WARPS	120 8	24.9	
													120 2 3/4	17	
													120 8	23.98	
													120 2 3/4	16.85	
													120 7	18.88	
													120 3	20.6	
													120 7	19.9	
													120 2 3/4	16.8	
Iron Stream Chain or Steel Wire	90 5	52.8	80.8			90	5		Steel Wire	Tokyo Seiko Works	Kawasaki 12/14/30 J.P. 2/2/30				

Steering Gear, Steam *Electric hydraulic* Steering Gear, Hand *Screw efficient.*
 Boats *2 lifeboats 26'0" x 8' x 3'25* Steering Chains, Size and Test *Telomotor gear* Windlass *Electric efficient*
 Ceiling in Holds, thickness and material *2 1/2 O.P.* Cargo Battens, thickness, material and spacing *6" x 2", 8" apart*
 Cargo Hatchways, (Upper Deck) *27 coverings .46 thick* Thickness of Hatches *2 1/2 30.3*
 Size of No. 1 Hatchway (Forward) *29'3" x 20'0"* No. 2 *30'3" x 20'0"* No. 3 *30'3" x 20'0"* No. 4 *22'0" x 20'0"* No. 5 *30'3" x 20'0"* No. 6 *30'3" x 20'0"*
 Number of Shifting Beams and/or Fore and Afters *No. 1, 2, 3, 5, 6, Hatchways, 6 webs. No. 4 hatchway 4 webs.*

Builder's Signature *Y. K. Kuma*

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.
The double bottom tanks (except under engines F.W.) and fore peak tank have been fitted to carry oil fuel with flash point above 150° F. A deep tank has been fitted abaft the engine room for carrying cargo oil flash point above 150° F. Section 20A of the rules complied with.
The vessel has been built in accordance with the approved plans.
The material and workmanship are good.
All weather decks, watertight doors and bulkheads and tunnel have been hose tested and found watertight.
A copy of the midship section of the vessel as built also copies of forging, casting, and steel testing certificates are enclosed. Wireless fitted.
The tween deck bulkhead at frame 101 has been dispensed with. Copy of Owners letter enclosed requesting omission.

The amount of Entry Fee *Freeboard* 100 : 180 :
 Special Survey Fee *52.81* :
 Travelling Expenses *59.50* :
83.10 :
66.30 :
5769.90

Fees applied for, 23/11 1931
 Received by me, 30.4.1931

I am of opinion the Vessel should be Classed

Fitted for oil fuel (1.31) F.P. above 150° F
Adapted for carrying cargo oil (1.31) F.P. above 150° F in deep tank aft.

State whether the Vessel has been built under Special Survey *Yes.*

Signature *A. M. Glushan*

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *Yokohama*

Date of issue *27/2/31*

Committee's Minute

FRI. 27 FEB 1931

TUE. 10 NOV 1931

TUE. 17 NOV 1931

Character assigned

+ 100A1 Subject
Adapted for carrying oil 1.31 F.P. above 150° F in Deep Tank aft

Write Y.K. (Spl)
Kob

Lloyd's arcl. + Linc. 1.31. oil fuel
Cl. S.B. 100A1

TUE. 1 MAR 1932
 FRI. 16 SEP 1932
 TUE. 6 SEP 1932
 FRI. 28 JUL 1933
 TUE. 25 APR 1933



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Lloyd's Register Foundation

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 the Plans should be embodied.)

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

1st Bower	1025	37.2.21	A. D. H.	28/3/30
2nd "	1026	37.3.21	"	"
3rd "	1027	37.1.26	"	22/3/30
	1028	17.3.13	"	22/3/30.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 33.79 ft., R.Q.D. ✓ ft., Bridge 118.25 ft., Forecastle 39 (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. steel.

Official No. 36351 ; Signal Letters V H J M.

Is bottom of Vessel coated with cement *no*. if

particulars of composition

PARTICULARS OF WATER BALLAST.—

fresh water 36 c ft per ton
Oil fuel 40 " " "

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft, <i>fuel oil</i>	137.5	412.21	Fore peak tank, <i>fuel oil</i>	25.75	14
Double bottom, under Engines and Boilers, <i>Fresh water</i>	38.5	157.53	After peak tank, <i>fresh water</i>	16.00	7
Double bottom, if under Engines only,	✓	✓	Deep tank, aft, <i>cargo oil</i>	41.25	111
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,		
Double bottom, forward, <i>fuel oil</i>	179.5	592.81	Other tanks, if fitted, <i>fuel oil above fore peak tank</i>	19.85	4
		Total capacity of double bottom 1162.55	(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. 18.

Date

14/11/29/

Dates of Surveys held while building

6/3, 13/3, 1/5, 21/5, 26/5, 29/5, 3/6, 12/6, 18/6, 25/6, 27/6, 2/7, 9/7, 14/7, 18/7, 28/7, 2/8, 13/8, 19/8, 21/8, 23/8, 25/8, 27/8, 3/9, 11/9, 13/9, 19/9, 20/9, 25/9, 30/9, 4/10, 16/10, 21/11, 4/12, 31/12/30, 14/1, 15/1, 23/1/31.

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Total No. of Visits