

STEEL STEAMER or MOTORSHIP.

3 MAY 1934

Received at London Office

State if Report has been sent on the Freeboard of the Vessel No.

State if Report is sent on the Machinery of the Vessel Yes

Date of completion of report 9th April 1934.

Port of NAGASAKI.

No. 1955

Survey held at NAGASAKI. Date First Survey 23rd January 1933 Last Survey 31st March 1934.

On the (State if Machinery fitted Aft and of Single, Twin or Triple Screw) Steel Single Screw Motor Vessel "NICHIO MARU".

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

State Type of Erections Poop, Bridge, & Forecastle.

TONNAGE under 6,070.44
Tonnage Deck

CLASS * I00 AI.

State if with freeboard as condition of Class No

Built at Nagasaki.

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 435

Launched 4th Dec. 1933 Yard No. 551

Total 6,070.44

Breadth (greatest moulded) B 58.5

Builders Nagasaki Works Mitsubishi Zosen Kaisha, Ltd.

Gross Tonnage 7,508.86

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 32.83

Owners Toyo Kisen Kabushiki Kaisha.

Register Tonnage 5,521.88

1st Longitudinal Number (L x D) = 14,281

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

2nd Numeral L x (B + D) = 39,729

Residence Tokyo.

REGISTERED DIMENSIONS.

FEET.

Length 436.3

Framing Depth "d," at middle of length. See Sec. 3 (1d) E.R. 18.83 20.08

Breadth 58.5

Proportions—Depth to Length—Uppermost continuous deck to top of keel Do. Long Bridge to top of keel 13.25 10.72

Depth 32.83

Draught Moulded 26.3

Port of Registry Tokyo.

If surveyed while building, afloat, or in dry dock

Building.

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP. or m/m	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP. or m/m	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	33"	As Approved	Bracket Floors, Frame	B.A. 8" 3 1/2" .45"	As Approved
" " from 1/2 length to Collision bulkhead	27"	"	" " Reversed Frame	B.A. 180 75 9.5	"
" " in peaks	24"	"	" " Vertical Struts	B.A. 180 75 9.5	"
SIDE FRAMING.			Centre Girder, depth and thickness amidships	60x.55 in E.R. 45x.55-.45	"
Frame Amidships, Angle, [xxx]	300x90x90x10/15.5 EXTENDS to 2nd Dk in E.R. & Deep tank only, to Upper & 2nd Dk. Alt. in Hold & to Bridge Dk: where fitted. Fr. cut to form angle 200x90x10 Bet. 2nd & U.Dks Alt. and 185x90x10 & 180x90x 11.5 Alt. in Br: SPACE		" " top Angles	Double 3 1/2x3 1/2x.53-.49	"
" " EXXXXXXX			" " bottom Angles	Double 4x4x.59-.55	"
Reversed Frame amidships			Side Girders, No. each side and thickness	2 @ .41	"
" " EXXXXXXX			Margin Plate depth (excl. of flange) and thickness	40x.55-.53	"
Depth of Framing Girder	12"		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	5 5 .43	"
Frames in Uppermost Continuous 'tween Decks, [xxx]	230x90x90x11.5/13.5 Alt: Frs. in Hold 'tween Dks and for 4 Frs at Br. ends Web cut to 180x90x11.5A in Br: Tw: Dks. 8" x 3 1/2" x .45" B.A. between 2nd & U.Dks in E.R. & above D. T. 7" x 3 1/2" x .45" A in BR.		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	5 5 .43	"
" " EXXXXXXX			" " Gussets, spacing and scantling abaft 1/2 len. from stem	.41 Continuous	"
" " EXXXXXXX			" " Gussets, spacing and scantling forward 1/2 len. from stem	.41	"
Framing in Peaks, [xxxxx]	8 1/2" 3 1/2" .45"		Tank Side Brackets, height above Keel at toe of Frame and thickness	83x.49 84x.49 in E.R.	"
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8" dia x 5 1/2" P.		INNER BOTTOM PLATING.		
State if Frame Joggled	Joggled.		Breadth and thickness of Middle Line Strake	E.R. .52" 52 1/2" x .51 to .43"	"
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	Beams on alt frs in fore peak side girders with D.R. angles to shell Frs fitted with 125x90x13 Rev. angles & web frs as approved.		Thickness of remainder in Holds	.45 to .40	"
STRENGTHENING OF BOTTOM FORWARD. State Particulars	3 strakes of bottom plating next keel 70 @ 33" F.S. & 72 @ 27" F.S. Maintained to Coll. Bhd. add. side girders extend as far fwd. as practicable fitted in D.B. tank. Solid floors fitted from 1/2 L. amidships fwd. with D.R. angles & 3" x 4" x 7/16" back bar from 3/5 L. to Coll. Bhd.		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	230x80x80x9.5-9/12 in Wells, [xxx]		Uppermost Continuous Deck, amidships	230x80x80x9.5-9/12	
Height of Brackets at side above base line at toe of frame	add. side girders extend as far fwd. as practicable fitted in D.B. tank. Solid floors fitted from 1/2 L. amidships fwd. with D.R. angles & 3" x 4" x 7/16" back bar from 3/5 L. to Coll. Bhd.		" " in way of Bridge, [xxx]	200x90x90x8	"
Middle Line Keelson, on Floors, Angles, [or]	3" x 4" x 7/16" back bar from 3/5 L. to Coll. Bhd.		" " Spacing	Every frame	"
" " Through Plate or Intercoastal Plate	AS APPROV ^d		Second Deck, amidships, Angle, [or]	230x90x90x10.5 in D.T.	
" " Foundation Plate on Floors			" " Spacing	Every frame	"
" " Flat Plate Keel Angles			Second Deck, amidships, [xxx] in [B.R.]	8" 3 1/2" .45"	"
Side Keelsons, No. each side			" " Spacing	Every frame	"
" " thickness of Intercoastal Plate			Fourth Deck, amidships, Angle, [or]		
" " Angles			" " Spacing		
DOUBLE BOTTOM.			Poop Deck, [xxx]	200x80x80x8.5	"
Solid Floors, thickness and spacing	W.T. floor .49 .43 to every frame in E.R. Ford of 1/2 L amidships & ends Alt: frs in way of D. Tk: else where every 3rd frame.		" " Spacing	Every frame	"
" " Are Frame and Reversed Frame joggled? Yes			Bridge Deck, [xxx]	230 1x80x80x9.5 & 200 1x80x80x9.5	
Bracket Floors, breadth and thickness at middle line	34"x.43"	As Approved	" " Spacing	Every frame	"
" " breadth and thickness at margin plate	38"x.43"	"	Forecastle Deck, [xxx]	200x80x80x8.5	"
			" " Spacing	Every frame	"

PILLARS AND DECKS.

PILLARS, No. of Rows.....	INCHES IN SHIP. or m/m		Any Departure from Approved Plans to be Noted.	INCHES IN SHIP. or m/m	Any Departure from Approved Plans to be Noted.
	Widely Spaced	As Approved			
Fr 17 8x.40 Tubular				63x.38-.42	As Approved
" in 'tween Decks, Size and Spacing.. 148 9x.40 "		"			
" " " 63 11x.50 "		"		.37-.35&.33	"
" " " E.R.] Fr 77 300x90x90x13 P. "		"		.42-.34	"
" " " in ER Tw.Dk. " 300x90x90x13 }		S. "			
" " " in Holds "] " 77 180x75x75x8 }		"		.31 .32&.42	"
" " " E.R.] Fr 81 200x90x90x9.5		"		Not Sheathed	"
" " " 230x90x90x11.5		"			
Centre Line Bulkhead.					
Stiffeners and Spacing... 33" spacing.. CH 150x75x75x6.5		"			
	BA 150x75x8	"			
Plating, thickness of Holds... 30 9x3x.475		"			
Tw.Dk .26 5x3x.30A in Tw.Dk.					
STRINGERS AND DECKS.					
Uppermost Continuous Deck.					
Stringer Plate, breadth and thickness in Wells	66x1"-39 1/2x.43"	"			
" " " " in way of Bridge	.72 DBL at Br.ends.				
" " " " Angle in Wells	66 x.41	"			
Thickness of Plating abreast Deck openings } in way of Wells	7" 7" 1"	"			
Thickness of Plating abreast Deck openings } in way of Bridge .....	.78-.72&.50	"			
Thickness of Plating within line of openings...	.37	"			
If Sheathed, material and thickness .....	.44-.34 in Bridge	"			
Second Deck.	.38 .42 & .44	"			
Stringer Plate, breadth and thickness in Wells...	Not Sheathed	"			
	63x.41-.35	"			
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					
Plating, Sheathing, material and thickness ...					
Bridge Deck.					
Stringer Plate, breadth and thickness.....					
Plating, Sheathing, material and thickness ...					
Forecastle Deck.					
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. State if joggled? Not Joggled			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	51	.85	.75	.75	As approved	Double	1	3.7	4 to 3	1	4-3.5	Lapped.
„ DBLG. (if any)			/									
BOTTOM PLATING, No. of Strakes .....3.....		.69	.49	.49-.65	"	"	7/8	3.3	4 to 3	7/8	3.4 3.1	"
BILGE PLATING, No. of Strakes .....2.....		.69	.49	.65-.75	"	"	"	"	"	"	"	"
SIDE PLATING, No. of Strakes .....2.....		.68	.46	.50-.46	"	"	"	"	3	"	3.1	"
UPPER DECK, Sheer- strake in Wells.....	72	.94	.46	.46	"	"	1 7/8	3.7 3.3	4 to 3 3	1 7/8	4 3.1	"
UPPER DECK, Sheer- strake in Bridge ...		.68			"	"	7/8	3.3	3	7/8	3.1	"
STRAKE BELOW Sheer- strake in Wells.....	90	.80	.46	.46	"	"	1 7/8	3.7 3.3	4 to 3	7/8	4 3.1	"
STRAKE BELOW Sheer- strake in Bridge ...		.68			"	"	7/8	3.3	3	7/8	3.1	"
POOP SIDE PLATING .....				.40	"	Single	3/4	3	One	3/4	2.5	"
BRIDGE SIDE PLATING ...		.62			"	Double	7/8	3.3	4	7/8	3.4	"
FOREC'TLE SIDE PLATING			.42		"	Single	7/8	3.1	One	7/8	3	"

WATERTIGHT BULKHEADS.

Note:- Tween dk Bhd above aft deep tank Bhd dispensed with. (Owners letter herewith).

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

Extending to Upper Deck (Sec. 3 c)	6
„ Deck next below	1
As per Rule	7

For particulars of other bulkheads. please see approved plans.

For particulars of other bulkheads. please see approved plans.		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
	Fr. 85	.36	180x75x9.5	25-33		
		.26	125x11	27"		
		.30	125x11FB			
	" " 85 " 68	.26	53x.42A	27"		
		.50-42	200x75x10BA	21"	2 as	
	" Hold max " 68	.30	250x90x9	24"	approved	
	" " Holds 85	.50-42	250x90x	26		
		.30	90x11	27		
		.54				
	" (in Hold) " 156	.46-28	" "	24)	Semi-box Bm.	
	" " " 12	34-30	200x75x10	24)	fitted as	
	" " " 12	34-30	200x75x10	24)	approved.	

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar		/		
STEM in 2 pieces	F.S.	10 ¹ / ₂ x 2 5/8	MZK	As approved.
STERN FRAME { Propeller Post	C.S.	Stream lined "	"	"
{ Rudder "	"	section	"	"
RUDDER —A×D. 428.81		Ballanced Rudder.		
Speed of Vessel		13 ³ / ₄ knots		
RUDDER mainpiece at head ...	F.S.	Stock 11"D.	MZK	"
" " heel ...	C.S.	"	"	"
" how constructed ...		Built up and Stream lined		
" double or single plate		Double .50		
" 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) Open Hearth Process.
Asano Shipbuilding Co. Tsurumi: Imperial Steel Works. Yawata: Nippon Kokan Kaisha, Ltd.

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

EQUIPMENT No 41692										LETTER bf		ANCHORS, 3B. 15.			
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.			
844	1st Bower ...	69	0	10	Stockless			53	7	0	0		Hall's Type	M.Z.K.	Nag.2-12-33 TK
845	2nd „ ...	69	0	21	“			53	7	0	0		“	“	“ “ “
901	3rd „ ...	70	0	8	“			53	17	0	0		“	“	“ “ “
	Collective weight.	208	1	11								207-			“ 9-3-34 “
913	Stream	21	0	7	5	2	1	21	16	0	0	20 1/2-	Ordinary	“	“ 26-3-34 TK.

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.		Length.	Cir.
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.				Fathoms.	Ins.	Tons.	Fathoms.	Ins.
1967A	305	2 3/8	105.5		902-0-26		844 1/2		300	2 3/8	S.L.	Osaka Chain Wks	Osaka					
				142.1														
1967	-				1-0-8	(1 Shackle only).												
3846																		
Iron Stream Chain or Steel Wire	120	5		63.2														

Steering Gear, Steam Hydraulic Electric: Williams Janney Type, Efficient. Steering Gear, Hand Worm Gear Type. Good & Efficient.

Boats 2 @ 28'-0" & One Temma Steering Chains, Size and Test / Windlass Electric Efficient.

Ceiling in Holds, thickness and material 2 1/2" Pine on 2" Wood Batten Cargo Battens, thickness, material and spacing 6"x 2" Pine Spaced. 9" Apart.

Cargo Hatchways.-(Upper Deck) 6 off, .30 Coamings Sides .60-.50-.44. Ends .44 Thickness of Hatches 3" O.Pine.

Size of No. 1 Hatchway (Forward) 31'-6"x21'-0" No. 2 38'-6"x21'-0" No. 3 30'-3"x21'-0" No. 4 16'-6"x21'-0" No. 5 38'-6"x21'-0" No. 6 30'-3"x21'-0"

Number of Shifting Beams ~~30 off~~ No.1. 3 & 6, 5 off: No.4, 2 off: No.2 & 5, 6 off:

Builder's Signature

for J. Inagaki

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 constructed under Special Survey in accordance with the terms of the Rules and approved plans. The materials have been tested found efficient and the workmanship throughout is good.

All double bottom tanks. Deep tanks, fore & aft Peak tanks, wing tanks (in E.R.) & Tween deck Fresh water tanks, have been tested as per Rule and found good and tight.

All tank heating coils and pipes have been tested in place to 240 lbs hydraulic pressure & found good.

All cargo oil and oil fuel suction & filling pipes have been tested in place to 60 lbs hydraulic pressure and found good.

Decks, gutterways, hatch coamings, deck houses, Poop, Bridge and Forecastle bulkheads, Holds and Tween deck bulkheads, chain locker, side ports, and hatch tarpaulins hose tested and all found satisfactory.

Vessel fitted for the carriage of cargo oil in deep tanks. F.P.above 150° F. Fuel oil carried in double bottom tanks and wing tanks in E.R. F.P.above 150° F.

The amount of Entry Fee £ 10-0-0 :

Special Survey Fee.... £ 581-11-8:

Travelling Expenses, if any £ :

Fees applied for,

2. 4. 1934

Received by me,

24-5-1934

I am of opinion the Vessel should be Classed + 100 AI.

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

Signature

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to Nagasaki

Date of issue

14/5/34

Committee's Minute

TUE 8 MAY 1934

Character assigned

+ 100 AI

Carrying Cargo Oil 21' above 150° F. in D.T.

Lloyd's a.r.c. + Limb. 3. 34

Oil Sp. L. D.P. 120 lbs.

Mike Kish

W. (6)

My



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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 a List of the Plans should be embodied.)

Oil gutter way fitted to D.B. tank top in way of E.R. wing tanks, and in hold in way of deep tank.

Sister vessel:- "Uyo Maru" Yard No. 532. Nagasaki Report No. 1916.

Plans of ship as built sent under separate cover, viz:-

Midship section: Construction profile & deck: W.S. pillars & girders: W.T. & O.T. bulkhead: Stem:

Stern frame & Rudder: Shell expansion: Aux. engine seating: Pumping plan and Steel Invoice:

Forging and casting certificates forwarded herewith:-

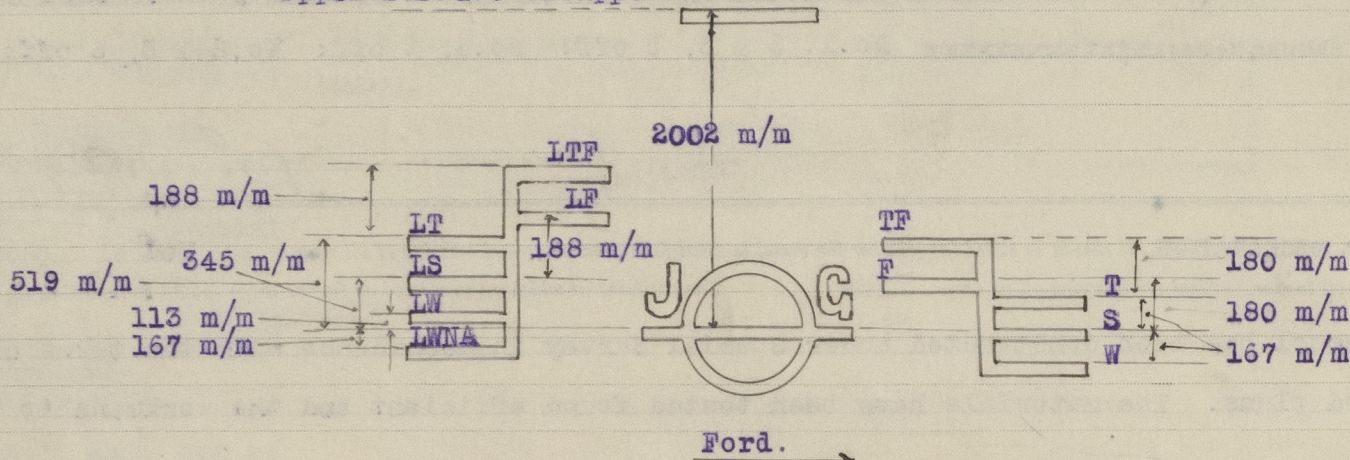
Stem (F.S.) Cert No. 731: Stern frame (C.S) Cert No. 724: Rudder (C.S.) Cert No. 832:

Note:- The masts with crosstrees are constructed of steel plates and sections Electrically welded. In order that after well deck may be clear of all obstructions, shrouds are attached to dk house bulwarks.

The freeboard has been assigned by the Japanese Government Marine Office, in accordance with the new government regulations, which state that all freeboards for Japanese vessels must be assigned by the Government authority.

The freeboard assigned is as follows:-

Upper surface of upper dk Str. Plate.



Particulars of Drop Test of Cast Steel Anchors, viz:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	40 - 0 - 20.	T.K.	844.	29-11-33.
	2nd "	40 - 1 - 25.	T.K.	845	"
	3rd "	47 - 0 - 20.	H.D.B.	901	10-1-34.
	Stream.	19 - 1 - 18.	H.D.B.	913	"

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 30.4 ft., R.Q.D. - ft., Bridge 156.75., Forecastle 41.12 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated Not Joined.

Tween dk bulkhead above aft deep tank bulkhead dispensed with.

No. and Material of Decks (This information is to be given as it should appear in the Register Book) 2 Dks, Steel, 2 Tr.Bms.

Official No. 38753 ; Signal Letters J.R.B.T.

Is bottom of Vessel coated with cement Part only if not give

particulars of composition Fore & aft peak tanks, Fresh water tanks, Cofferdams, Wells & bilges, Cement coated.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	143	465.91	Fore peak tank,	27.72	262.9
Double bottom, under Engines and Boilers,	44	256.19	After peak tank,	24	227.1
Double bottom, if under Engines only,			Deep tank, aft,	35.75	1145.42
Double bottom, if under Boilers only,			Deep tank, forward in Eng. Rm.	35.75	1145.42
Double bottom, forward,	181.75	683.23	Other tanks, if fitted, FW Tks in Tw, Dk:	11.0	80.22
Total capacity of double bottom		1405.33	(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. 107

Date 29-12-1932
London.

Dates of Surveys
held while building

1933:-
Jan 23. --- Apr 8. 21. 22 May 4. 8. 11. 15. 18. 22. 25 June 7. 12. 16. 17. 27. 29 July 4
8. 11. 13. 18. 21. 24. 25. 26. 27. 31 Aug 2. 5. 14. 16. Sep 5. 12. 13. 22. 26. 28 Oct 4. 5. 11.
14. 18. 23. 25. 26. Nov 1. 2. 6. 8. 11. 14. 16. 18. 20. 22. 25. 28. 30 Dec 1. 2. 4. 6. 16.
1934:- Jan 10. 23 Feb 2. 5. 9. 12. 14. 22. 26 Mar 6. 10. 15. 17. 22. 26. 27. 29. 31.

Lloyd's Register
Foundation
Total No. of Visits 83