



16312

## STEEL STEAMER OR MOTORSHIP.

Received at London Office 13 SEP 1955

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

Port of Shimonoseki (Nagasaki)

No. 450

Survey held at

Nagasaki

Date First Survey 17th. Nov. 1954

Last Survey 11th. June

1955

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

Single Screw Motor Vessel "KOCHU MARU"

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

Complete superstructure without tonnage

State Type of Erections Forecastle

openings.

TONNAGE under Tonnage Deck

8100.14

CLASS 100 A.1.

State if with freeboard as condition of Class Yes

Built at Nagasaki Japan

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)

FEET

L 459.32

Launched 10th. Mar. 1955 Yard No. 1445

Total

8100.14

Breadth (greatest moulded)

B 63.65

Builders Mitsubishi Zosen K.K.

Gross Tonnage

9197.25

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

D 40.03

Owners Daido Kaibun K.K.

Register Tonnage

5372.34

1st Longitudinal Number (L x D)

-

Managers

(Where necessary to be entered in Reg. Book)

## REGISTERED DIMENSIONS.

FEET

469.5

63.7

40.0

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

17.39

Residence

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

11.47

Port of Registry Kobe

Do. Long Bridge to top of keel

-

If surveyed while building, afloat, or in dry dock

Draught Moulded (Summer Fbd. 11.39')

28.65

During construction

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP. mm.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP. mm.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	800	/	Longitudinal		
" " from 1/2 length amidships to Collision bulkhead	685	/	Bracket Floors, Frame ... Bulb plate	230 x 11	Spaced 875
" " in peaks	610	/	Inner bottom longitudinals - B. Pl.	210 x 11	
DE FRAMING.			" " Reversed Frame		
Frame Amidships, Angle, [ or ]	300 x 90 x 10/15.5 Inv. angle	/	" " Vertical Struts	250 x 90 x 9/13 Ch.	/
" " Extends up to	3rd. Dk.	/	Centre Girder, depth and thickness amidships	1500 x 13.5	/
Reversed Frame Amidships, Angle	-	/	" " top Angles	Welded	/
" " Extends up to	-	/	" " bottom Angles	"	/
Depth of Framing Girder	300	/	Side Girders, No. each side and thickness	One, 9.5	/
Frames in Uppermost Continuous 'tween	200 x 10 B. Plate	/	Margin Plate depth (excl. of flange) and thickness	1020 x 14	/
Decks, Angle, [ or ]	230 x 12 B. Plate in way of Trans.	/	" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	Welded	/
" " Second 'tween Decks, Angle, [ or ]	230 x 12 B. Plate	/	" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area	"	/
" " Third " " " "	300 x 10 10/15.5	/	" " Gussets, spacing and scantling abaft 1/2 len. from stem	12.5 x 400	/
" " from 1/2 len. for'd. to 15% len. from Stem	300 x 12 web with 150 x 12 face bar	/	" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	12.5 x 400	/
" " in Peaks, Angle or [	230 x 12 B. Plate	/	Tank Side Brackets, height above base line at toe of Frame and thickness	1550 x 12.5	/
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	Welded	/	INNER BOTTOM PLATING.		
State if Frame Joggled	Upper Tw. Dks. only	/	Breadth and thickness of Middle Line Strake	1370 x 13	/
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	Yes	/	Thickness of remainder in Holds	11.5	/
Are the scantlings and arrangements in way of the Bottom Forward 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	/
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships in Wells, Angle, [ or ]	150 x 90 x 12 Inv. angle long.	/
Height of Brackets at side above base line at toe of frame			" " Transverses in way of Bridge, Angle, [ or ]	300 x 90 x 10/15.5 Inv. angle	/
Middle Line Keelson, on Floors, Angles, [ or ]			Spacing (Long!)	875	/
" " Through Plate or Inter-costal Plate	None	/	Second Deck, amidships, Angle, [ or ]	250 x 12 B. Plate	/
" " Foundation Plate on Floors			Spacing	800	/
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, [ or ]	230 x 12 B. Plate	/
Side Keelsons, No. each side			Spacing	800	/
" " thickness of Inter-costal Plate			Fourth Deck, amidships, Angle, [ or ]		None
" " Angles			Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle, [ or ]		None
Solid Floors, thickness and spacing	11.5 @ 2400	/	Spacing		
" " Are Frame and Reversed Frame joggled?	Welded	/	Bridge Deck, Angle, [ or ]	125 x 75 x 7 Inv. angle	/
Bracket Floors, breadth and thickness at middle line	875 x 10.5	/	Spacing	800	/
" " breadth and thickness at margin plate	800 x 11	/	Forecastle Deck, Angle, [ or ]	200 x 10 B. Plate	/
			Spacing	685/610	/

# PILLARS AND DECKS.

	Inches in Ship. mm.	Any Departure from Approved Plans to be Noted.		Inches in Ship. mm.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows .....			Stringer Plate, breadth and thickness in way of Bridge .....	400 x 10.5	/
„ in 'tween Decks, Size and Spacing .....	Pillaring in accordance with the approved plans	/	Thickness of Plating abreast Deck openings in way of Wells .....	9.5	/
„ „ „ „ „			Thickness of Plating abreast Deck openings in way of Bridge.....	9.5	/
„ in Holds „ „ „			Thickness of Plating within line of openings...	7.5	/
„ „ „ „ „			If Sheathed, material and thickness.....	-	/
Centre Line Bulkhead. Stiffeners and Spacing .....	None	/	Third Deck. Stringer Plate, breadth and thickness.....	350 400 x 10	/
Plating, thickness of .....			If Plated, state thickness .....	7.5	/
STRINGERS AND DECKS.			Fourth Deck. Stringer Plate, breadth and thickness.....	None	
Uppermost Continuous Deck. Stringer Plate, breadth and thickness in Wells	22	/	If Plated, state thickness.....		
„ „ „ „ in way of Bridge	22	/	Poop Deck. Stringer Plate, breadth and thickness.....	None	
„ Angle in Wells .....	180 x 80 x 25	/	Plating, Sheathing, material and thickness ...		
Thickness of Plating abreast Deck openings in way of Wells .....	22	/	Bridge Deck. Stringer Plate, breadth and thickness.....	7	Deck comp. filled
Thickness of Plating abreast Deck openings in way of Bridge.....	22	/	Plating, Sheathing, material and thickness ...	7	
Thickness of Plating within line of openings...	9.5	/	Forecastle Deck. Stringer Plate, breadth and thickness.....	10	/
If Sheathed, material and thickness.....	Deck comp. in accomm.	/	Plating, Sheathing, material and thickness...	8 & 14	/
Second Deck. Stringer Plate, breadth and thickness in Wells	400 x 10.5	/			

# SHELL PLATING.

SCANTLINGS.					RIVETING.				
STRAKES.	AS IN VESSEL.				EDGES. No /				
	AMIDSHIPS.		FORWARD.	AFT.	ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.		BUTTS.		
	Breadth. Inches. mm.	Thickness. Inches. mm.	Thickness. Inches. mm.	Thickness. Inches. mm.			No. of Rows of Rivets.	Rivets. Diam. Inches.	Spacing cr. to cr. Inches.
Flat Plate Keel.....	1360	22.5	22.5	22.5	/	Double	22	8 rivs. each row	/
„ Dblg. (if any)	-	-	-	-		-	-	-	
Bottom Plating, No. of Strakes .....3.....		17.5	20.5	18.5	ABC	Welded	-	-	
Bilge Plating, No. of Strakes .....2.....		17.5	17.5	17	DE	Double	22	8 rivs. each row	/
Side Plating, No. of Strakes .....3.....		17	13	13	F&H	{ Welded except common seam of G/H strakes }		22	"
Upper Deck, Sheer- strake in Wells.....	1595	21.5	13	14	K	Double	22	"	"
Upper Deck, Sheer- strake in Bridge ...		21.5				"	"		
Strake below Sheer- strake in Wells.....		17	13	13	J	Welded	-	-	
Strake below Sheer- strake in Bridge ...		17				"	-	-	
Poop Side Plating.....		-	-	-					
Bridge Side Plating.....		-	-	-					
Forecastle Side Plating		-	11	/		Welded	-	-	

# WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	
Extending to Upper Deck (Sec. 3 c)	6 7 for RB
„ Deck next below AP & SS	2
As per Rule.....	7

# STIFFENERS.

	Plating Thickness.	VERTICAL.				HORIZONTAL.	
		Scantlings.		Spacing.		Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper 'tween decks	7/7.5	125 x 75 x 7	Inv. angle	@		875	
„ „ Second „	7.5/8	150 x 90 x 9	"	"	@	688	
„ „ Third „	-						
„ „ Holds .....	10	Corrugated	/				
COLLISION „ (in Hold) .....	11/14	180 x 9.5 B.P. & 200 x 10 B.P.	@	625			
AFTER PEAK „ „ .....	9/13	150 x 90 x 12	Inv. angle	@	700		

# FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar .....	Plate	/		
STEM .....	"	/		
STERN FRAME { Propeller Post .....	Casting	As approved	Mitsubishi Steel Mfg. Co.	
{ Rudder " .....				
Speed of Vessel .....	16 k.	/		
RUDDER—Type .....	Balanced			
" A x D.....	1390			
" Diam. of head .....	Forging	315	Mitsubishi Steel Mfg. Co.	
" Mainpiece at top pintle .....	Casting	As approved		
" " heel .....				
" how constructed .....	Welded plates & diaphragms			
" double or single plate .....	Double	/		
" coupling, vertical or horizontal .....	Horizontal	/		

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)
	Yawata Steel Works (Open hearth) /
	Has the Steel been tested as required by the Rules? Yes /

(4544 Metric)

EQUIPMENT No. 48912										LETTER <i>e</i>	ANCHORS.									
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.	lbs.							
Y. 6053	1st Bower	84	3	7	-	-	-	61	0	0	0	81 3/4	-	Stockless	Tokyo Steel	Makers' works 28/12/54 T. Nomura.				
Y. 6051	2nd "	83	2	15	-	-	-	60	10	0	0	"	-	Improved Hall's	Casting Co.					
Y. 6052	3rd "	83	1	21	-	-	-	60	10	0	0	"	-							
	Collective weight																			
Y. 6054	Stream	25	2	9	6	1	27	25	13	0	0	-	-	Admiralty pattern	"					

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.	Breaking.	Supplied.	Per Rule.	Length.	Diam.					Length.	Dia.		Length.	Chr.	Length.	Chr.		
	Fathoms m.	Inch. mm.	Tons. Kg.	Tons. Kg.	Owts. qrs. lbs. Kg.	Owts. Kg.	Fathoms m.	Inch. mm.					Fathoms m.	Inch. mm.	Tons. Kg.	Fathoms m.	Inch. Brkg.				
C.C. 21189	552.99	58	133500	186800	43696	38335	550	57	{ C.S. Stud Link	Osaka Chain Mfg. Co.	{ Makers' works 27/10/54 K. Urayama	TOWLINE	240	44	95450	220	844				
							300	2 1/4				HAWSE & WARPS	Manilla.								
		Dia. Chr.						Chr.				4 @	200	65	30600	200	236				
Iron Stream Chain or Steel Wire	225	38	-	71550	6 x 24	G.S.W.R.	220	-													

Steering Gear, Type (Power or hand) Electro-hydraulic (20 H.P. x 2) Alternative Means of Steering Hand pump

Steering Chains (Size and Test) None Windlass Electric (80 H.P.) Boats 2 wood

Ceiling in Holds, thickness and material 65 mm. S.W. on 13mm. bearers Cargo Battens, thickness, material and spacing 150 x 50 S.W. @ 250 centres

ways.-(Upper Deck) 12 mm. steel coamings welded to deck Thickness of Hatches 75 mm.

ways No. 1 (Fwd.) 9590 x 5000 No. 2 12800 x 7000 No. 3 11200 x 7000 No. 4 8800 x 7000 No. 5 11200 x 7000 No. 6 8800 x 7000

Shifting Beams re and Afters } No. 1 :- 6. No. 2 :- 7. No. 3 :- 6. No. 4 :- 5. No. 5 :- 6. No. 6 :- 5.

Builder's Signature L. Matsuda  
NAGASAKI WORKS  
MITSUBISHI SHIPBUILDING & ENGINEERING CO., LTD.

**DECLARATION.** It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel motorship 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 (where required to be inserted in the Notation). This ship has been built under Special Survey in accordance with the Society's Rules and Regulations and the Secretary's letters. The scantlings & arrangements of the hull & machinery as given in the report and as shown on the "Approved" and "As fitted" plans now forwarded. All alterations or additions to the original approved arrangements have been indicated on the plans & have been approved as being in accordance with, or by standards equivalent to, the Rule requirements. The plans of the ship Section and Construction Profile & Decks showing the ship as built and forwarded herewith have been checked with the approved arrangements and found in order.

The materials and workmanship are good. All D.B. tanks, peak tanks, deep tanks, oil fuel tanks & other tanks have been tested as required by the Rules and found satisfactory. The weather decks, W.T. bulkheads, & other structures in way of refig. spaces, the shaft tunnel & watertight door have been tested. The windlass and steering gear have been tried under working conditions and proved satisfactory. The assigned freeboards have been marked on the ship's sides, verified, and cut in. Oil fuel, flash point above 150°F is carried in Nos. 3, 5, 6, 7 & 8 D.B. tanks and in the settling tanks situated at the after end of the engine room on the upper deck. Vegetable oil may be carried in deep tanks abaft the engine room.

The amount of Entry Fee..... £2,094,000

Special Survey Fee..... {Suk... £ 13,500  
Kob. 9,600

Travelling Expenses, if any ..... £ : : 19

Fees applied for, 5. AUG. 1955 LOCALLY

Received by me, 19

(Special notations, where part of class, to be stated.)

I am of opinion the Vessel should be Classed 100 A.1.

State whether the Vessel has been built under Special Survey Yes

Certificate to be sent to Nagasaki Suk in Trip. Date of issue 17/11/55

Committee's Minute FRIDAY 21 OCT 1955

Character assigned +100 A1

Lloyds  
A & C.P.  
Carrying Vegetable Oil in Deep Tanks Aft.  
5.55 Nag.  
+LMC 6.55  
DB 100 lb.  
WTDB (Exhaust gas) 100 lb.  
CL

Write Suk

S&L

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010791-010796-0063

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.)

Loadline assigned by the Japanese Government

Vessel examined in dry-dock on the 30th. May 1955, vessel undocked 31st. May 1955

The following "Approved" plans are forwarded with this report -

Midship Section, Constructional Profile & Decks (Sheets 1 & 2)

together with the following "As fitted" plans -

Midship Section,

Constructional Profile & Decks (Sheets 1 & 2)

W.T. & O.T. Bulkheads

Double bottom (Sheets 1 & 2)

After peak

Fore peak

Shell Expansion

Sternframe

Rudder

Location & Particulars of P.403 plating.

General Arrangement

Capacity Plan.

Pumping Plan.

The following forging and casting certificates are forwarded with this report -

Sternframe

Upper & lower castings for rudder

Rudder stock.

Tiller

Steering gear crossheads

#### PARTICULARS OF ELECTRIC WELDING (if employed)

The vessel is of all-welded construction with the exception of the following rivetted connections:

Upper deck stringer angle, sheerstrake seams, common seam of side shell strakes G/H, seams of bilge strakes, plate keel seams, foundation connection at ends of Bridge deckhouse

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

Part electrically welded, cruiser stern, Lloyds A & C.P., DF, ESD, Radar, Gyc., Carrying vegetable oil in deep tanks aft, Longitudinal framing at bottom and at upper deck.

RADAR Equipment (State if fitted) Yes

State Type or Pattern No. J.R.C./N.M.D. 402

State } Maker Japan Radio Co. Ltd.  
Name } and/or  
of } Supplier Tokyo

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

1st Bower	54 cwt.	0 gr.	2 lb.	-	T.N.	-	Y. 6049	-	27/12/54
2nd "	52 "	3 "	21 "	-	T.N.	-	Y. 6047	-	"
3rd "	52 "	3 "	10 "	-	T.N.	-	Y. 6048	-	"

#### PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop - ft., R.Q.D. - ft., Bridge - ft., Forecastle 33.83 ft.

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

Official No. 73083 Signal Letters JH QK Extreme Breadth over Belting 63'-9 1/2" Over-all Length 496.10 ft.

No. and Material of Decks 3 steel (except in Nos. 4 & 6 Holds) Rise of floor 6.69" (170 mm.)

Parts of Bottom of Vessel coated with cement or approved composition Fore peak, after peak, feed water tank in machinery space double bottom.

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.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	118	466	Fore peak tank,	35	Fresh water
Double bottom, under Engines and Boilers,	53	Fresh water	After peak tank,	20	" "
Double bottom, if under Engines only,	-	& Oil Fuel	Deep tank, aft, (Including exp. trunks)	47	705
Double bottom, if under Boilers only,	-	-	Deep tank, forward,	-	-
Double bottom, forward,	193	665	Other tanks, if fitted, Tk. in way of tunnel	24	145
Total length (if continuous) and Capacity.	364	1131 W.B.	(If necessary furnish further information by sketch.)		

Order for Special Survey No.

Date 29th. Dec. 1954

Dates of Surveys held while building

1954, Nov. 17, 25, 27, 30, Dec. 1, 3, 4, 6, 10, 11, 13, 14, 15, 16, 18, 22, 24.  
1955, Jan. 7, 18, 19, 22, 25, 26, 28, Feb. 2, 3, 4, 5, 9, 10, 12, 14, 15, 16, 18, 22, 24, 25, 28  
Mar. 1, 2, 4, 5, 8, 10, 18, 23, 25, 28 April 2, 6, 12, 15, 20, 28.  
May 4, 10, 12, 14, 25, 30. June 1, 2, 6, 11.

Total No. of Visits 65