

STEEL STEAMER or MOTORSHIP.

-3 SEP 1934

Received at London Office.

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

11/9/34

Port of

Newcastle-on-Tyne

No. 91707

Survey held at

Walker-on-Tyne

Date First Survey

28 Feb

Last Survey

12 Sept 1934

On the

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

Steel Single Screw Steamer HAI YUAN

State Type

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

Scantlings for restricted draft.

State Type of Erections

Prop. Bridge & Tiller

TONNAGE under Tonnage Deck

2713.76

CLASS +100A1

State if with freeboard as condition of Class

Yes

Built at

Walker-on-Tyne

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Total

Gross Tonnage

3363.20

Register Tonnage

2078.19

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

L 325.0

Breadth (greatest moulded)

B 47.0

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

D 25.0

1st Longitudinal Number (L x D)

8125

2nd Numerical L x (B + D)

23400

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

(17-6 3/4 as built)

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

13.0

Do. Long Bridge to top of keel

10.0

Draught Moulded

17-5 1/2

Launched

27 July 1934

Yard No. 1456

Builders

Swan Hunter & Wigham Richardson

Owners

The China Merchants Steam Navigation Co.

Managers

Residence

Port of Registry

Newcastle

If surveyed while building, afloat, or in dry dock

While building, afloat & in dry dock

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.
MES, Spacing amidships	25"		Bracket Floors, Frame	6 1/2 x 3 x .46	
" from 1/3 length to Collision bulkhead	25"		" " Reversed Frame	6 x 3 x .46	
" in peaks	24"		" " Vertical Struts	6 x 3 x .46	
FRAMING.			Centre Girder, depth and thickness amidships	32 1/2 x .47	
Holds	7 1/2 x 3 x .38	NBS	" " top Angles	3 x 3 x .44	
Bundlers	10 x 3 1/2 x .46	NBS	" " bottom Angles	3 1/2 x 3 1/2 x .52	
Some Amidships, Angle, E or C	10 x 3 1/2 x .46	"	Side Girders, No. each side and thickness	One .35	
" Extends up to (Holds)	Main deck		Margin Plate depth (excl. of flange) and thickness	28 x .42	
" (E & B, & Bundlers)	Upper deck		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	3 1/2 x 3 1/2 x .35	
Reversed Frame Amidships, Angle			" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem	5 x 5 x .40	
" Extends up to...			" " Gussets, spacing and scantling abaft 1/4 len. from stem	132 ft	
Depth of Framing Girder	Holds 7 1/2"		" " Gussets, spacing and scantling forward 1/4 len. from stem	132 ft	
" E.R.	10"		Tank Side Brackets, height above base line at toe of Frame and thickness	49 x .40 in E.S. 49 x .50 in B.S. 43 x .38 in holds	
Frames in Uppermost Continuous 'tween Decks, Angle, E or C	5 x 3 x .33	NBS	INNER BOTTOM PLATING.		
" Second 'tween Decks, Angle, E or C	5 x 3 x .32	OA	Breadth and thickness of Middle Line Strake	60 x .42	
" Third " " "			Thickness of remainder in Holds	.37 to .34	
Framing in Peaks, Angle, E or C	6 x 3 x .30		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	
Number and Spacing of Rivets through Frame and Shell Plating amidships	3/4 R. 5 1/4"		BEAMS.		
Is Frame Joggled	Yes		Uppermost Continuous Deck, amidships	6 x 3 x .40 fwd. 6 x 3 x .34 aft	
FRAMING ARRANGEMENTS (Sec. 7), state system and particulars	Deep frames 9 x 3 1/2 x .38	NBS	" " in Wells, Angle, E or C	NBS	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	Two side stringers		" " in way of Bridge, Angle, E or C	NBS	
Double Bottom.	Shell plating increased 1/8"		Spacing	Every frame	
Frames, Depth and thickness at mid-line in Holds	5 x 5 x .40	bottom frames	Second Deck, amidships, Angle, E or C	NBS	
Height of Brackets at side above base line at toe of frame	Girders 3 1/2" apart		Spacing	Every frame	
Double Line Keelson, on Floors, Angles, E or C	3 stringers of shell each side	.53	Third Deck, amidships, Angle, E or C		
" " Through Plate or Intercoastal Plate			Spacing		
" " Foundation Plate on Floors			Fourth Deck, amidships, Angle, E or C		
" " Flat Plate Keel Angles			Spacing		
Keelsons, No. each side			Poop Deck, Angle, E or C	NBS	
" thickness of Intercoastal Plate			Spacing	Every frame	
" Angles			Bridge Deck, Angle, E or C	NBS	
Double Bottom.			Spacing	Every frame	
Solid Floors, thickness and spacing	.35 Every 3rd frame		Forecastle Deck, Angle, E or C	NBS	
" " Are Frame and Reversed Frame joggled?	Frame joggled		Spacing	Every frame	
Bracket Floors, breadth and thickness at middle line	27 x .35				
" " breadth and thickness at margin plate	27 x .35				

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PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows.....	<i>Two</i>	
" in 'tween Decks, Size and Spacing....	AFT { ● <i>3 5/8 wide spaced</i> <i>11 ft. space maximum</i>	
" " " " " "	FWD { ● <i>3 1/4 - 5/8</i> <i>wide spaced</i> <i>12 ft. sp. max</i>	
" in Holds	AFT { □ <i>9 x .45 + 9 x .40</i> <i>hollow square</i> <i>11 ft. sp. max</i>	
" " " " " "	FWD { □ <i>12 x .48 L</i> <i>9 x .40 hollow sq.</i> <i>(12 ft. sp. max)</i> <i>12 x .48 L</i> <i>8 x .42</i>	
Centre Line Bulkhead.		
Stiffeners and Spacing.		
Plating, thickness of	<i>—————</i>	
STRINGERS AND DECKS.		
Uppermost Continuous Deck.		
Stringer Plate, breadth and thickness in Wells	<i>69 x .38</i>	
" " " " in way of Bridge	<i>69 x .35</i>	
" Angle in Wells	<i>5 x 5 x .38</i>	
Thickness of Plating abreast Deck openings in way of Wells	<i>.32 — .30</i>	
Thickness of Plating abreast Deck openings in way of Bridge	<i>.28</i>	
Thickness of Plating within line of openings...	<i>.36 in wells</i> <i>.30 in bridge</i>	<i>.32</i>
If Sheathed, material and thickness	<i>5 x 2 1/2 teak in wells</i> <i>1/4 composition in cabins</i>	
Second Deck.		
Stringer Plate, breadth and thickness in Wells...	<i>72 x .34</i>	
Stringer Plate, breadth and thickness in way of Bridge	<i>72 x .34</i>	
Thickness of Plating abreast Deck openings in way of Wells	<i>.30</i>	
Thickness of Plating abreast Deck openings in way of Bridge	<i>.30</i>	
Thickness of Plating within line of openings...	<i>.30</i>	
If Sheathed, material and thickness	<i>No sheathing</i>	
Third Deck.		
Stringer Plate, breadth and thickness.....	<i>—————</i>	
If Plated, state thickness.....	<i>—————</i>	
Fourth Deck.		
Stringer Plate, breadth and thickness.....	<i>—————</i>	
If Plated, state thickness	<i>—————</i>	
Poop Deck.		
Stringer Plate, breadth and thickness	<i>31 x .30</i>	
Plating, Sheathing, material and thickness ...	<i>.26 plating</i> <i>5 x 2 1/2 teak</i>	
Bridge Deck.		
Stringer Plate, breadth and thickness.....	<i>72 x .35</i>	<i>69 x .35</i>
Plating, Sheathing, material and thickness ...	<i>exposed</i> <i>.34, .32 between</i> <i>openings</i> <i>5 x 2 1/2 teak</i>	
Forecastle Deck.		
Stringer Plate, breadth and thickness.....	<i>31 x .30</i>	
Plating, Sheathing, material and thickness ...	<i>.26 plating</i> <i>5 x 2 1/2 teak</i>	

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	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	47	.61	.55	.55		Double	3/4	3	3	7/8	3 1/8	Lapped	
" DBLG. (if any)	-	-	-	-		-	-	-	-	-	-	-	
BOTTOM PLATING, No. of Strakes 3	75	.48	.53	.42 x		Double	3/4	3	3	3/4	2 5/8	Lapped	
BILGE PLATING, No. of Strakes	75	.48	.535	.42 x	.42 forward	"	"	"	3	"	"	"	
SIDE PLATING, No. of Strakes 2	72	.48	.535	.42 x	.41 "	"	"	"	3	"	"	"	
UPPER DECK, Sheer-strake in Wells	66	.58 aft .60 fwd	.41	.41		Gunnwale angle			3	7/8	3 1/8	"	
UPPER DECK, Sheer-strake in Bridge ...	66	.48	-	-		Double	3/4	3	3	3/4	2 7/8	"	
STRAKE BELOW Sheer-strake in Wells	72	.56	.41	.41		"	7/8	3 1/2	3 - 2	7/8	3 1/8	"	
STRAKE BELOW Sheer-strake in Bridge ...	72	.48	-	-		"	3/4	3	3	3/4	2 5/8	"	
POOP SIDE PLATING	-	-	-	.35		Single	3/4	3	1	3/4	2 5/8	"	
BRIDGE SIDE PLATING ...	90	.45	-	-		Double	3/4	3	3	3/4	2 5/8	"	
FOREOTLE SIDE PLATING	-	-	.38	-		Single	3/4	3	1	3/4	2 5/8	"	
					x Increased in stem frame as per Rule.								

WATERTIGHT BULKHEADS.

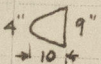

Total No. of **W.T. BULKHEADS** in Vessel— *Seven (including chain locker bulkhead)*

Extending to Upper Deck (Sec. 3 c) *Size* ✓

„ Deck next below *Chain locker bulkhead*

As per Rule *Five*

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	-	-	-	-
STEM	Roller bar	8 x 2 1/4	Woolingham	✓
STERN FRAME {	Propeller Post	Cast 4" 	Woolingham	4 1/2" 
	Rudder	Steel 8 x 5 3/4	Co. Ld	
RUDDER—A x D	266			
Speed of Vessel	12	knots		
RUDDER mainpiece at head ..	Castings	7 1/2 x 7 1/2	Woolingham	
" " heel ..		5 x 7 1/2	Co. Ld	
" " how constructed	Forged stock	8" diam by Woolingham		
" " double or single plate	Cast mainpiece	Steel	Co. Ld	
" " coupling, vertical or horizontal	Double 3b	plates		
	Horizontal	6 2 3/8" bolts		

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHD, Upper tween decks		.26	4 1/2 x 3 x .32	0 A 30"	-	-
"	" Second "	-	-	-	-	-
"	" Third "	-	-	-	-	-
"	" Holds .....	.43 - .29	9 x 3 1/2 x .38	5 N 95 31 x 30"	-	-
COLLISION	" (in Hold) .....	.41 - .26	6 x 3 x .38	5 0 85	24	Large stringer beam about 6 ft apart
AFTER PEAK	" " .....	.39 - .26	6 x 3 x .32	5	24	Turned Brass Top

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)
Cusset Iron Co. Sheerington I. Co Ld. Dorman Long & Co. South Durham S & S. Co Ld.
Hoddingham S & S. Co Ld. Appleby Iron Co. Colvells Ld. Cargo Fleet Iron Co Ld.

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

Has the Steel been tested as required by the Rules?

Yes

Open Heart

Raine & Co Ltd.

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.)

forwarded together with the Taring Certificate (4 certificates)

On completion the vessel was examined in drydock and the bottom recoated. One steel plate, which was found indented, was removed, faired and refitted.

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

1st Bower
2nd "
3rd "

25.2.19
25.0.22
25.0.16

L.R.
J.D.
J.D.

898
39
37

27.5.32
3.5.34
3.5.34

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 34.68 ft., R.Q.D. — ft., Bridge 125.66 ft., Forecastle 43.92 ft.
(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 (SKL)

Official No. : Signal Letters Is bottom of Vessel coated with cement if not give particulars of composition Bottom coated with cement in boiler room tank only

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	75.00	118	Fore peak tank,	17.66	42
Double bottom, under Engines and Boilers,	58.33	167	After peak tank,	20.08	43
Double bottom, if under Engines only,	—	—	Deep tank, aft,	22.92	43.5
Double bottom, if under Boilers only,	—	—	Deep tank, forward,	—	—
Double bottom, forward,	141.66	290	Other tanks, if fitted,	—	—
Total capacity of double bottom		575	(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. 5470

Date

8.3.34

Dates of Surveys held while building

1934 Feb. 28. Mar. 14. 16. 19. 20. 21. 26. 27. 29. Apr. 3. 4. 6. 9. 10. 12. 16. 17. 18. 19. 23. 24. 25. 26. 27. 30. May 1. 2. 3. 4. 7. 8. 9. 11. 14. 17. 22. 23. 24. 25. 29. 30. 31. June 1. 4. 14. 18. 19. 20. 21. 22. July 3. 5. 9. 10. 12. 13. 16. 18. 19. 24. 25. 27. 31. Aug. 8. 10. 14. 17. 24. 27. 28. 30. 31. Sep. 1.

Lloyd's Register
Foundation

Total No. of Visits

73