

STEEL STEAMER or MOTORSHIP.

-7 FEB 1933

Received at London Office...

RETAIN

State of Report has been sent on the Freeboard of the Vessel NoState of Report is sent on the Machinery of the Vessel YesDate of completion of report 2nd February 1932Port of NEWCASTLE-ON-TYNENo. 89776Survey held at Walker-on-TyneDate First Survey 25 April 1932Last Survey 2 February1933On the no (State of Machinery fitted Aft and if Single, Twin or Triple Screw)Steel Twin Screw"CHANGKIANG"

(machinery amidships)

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

"For River Service"Chain ferry

State Type of Erections

TONNAGE under Tonnage Deck... 2382.33

CLASS

+100 A-1 "Chain ferry" for River Service

State if with freeboard as condition of Class

NoBuilt at Walker-on-Tyne, Newcastle

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 360.0Launched 12th October 1932 Yard No. 1422

Breadth (greatest moulded)

B 56.0Builders Sam. Hunter & Wigham Richardson Ltd.

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

D 21.0Owners Ministry of Railways of the Republic of China1st Longitudinal Number (L x D) = 7560

Managers

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

2nd Numeral L x (B + D) = 27720

Residence

ED DIMENSIONS. FEET.

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

10.0 Lower d 18.5 Upper d

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

17.14Port of Registry Newcastle See in record 10/2/33

Do. Long Bridge to top of keel

If surveyed while building, afloat, or in dry dock

Draught Moulded

Building & afloat

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.
acing amidships	24"		Bracket Floors, Frame	none	
" from $\frac{3}{4}$ length to Collision bulkhead	24"		" " Reversed Frame	none	
" in peaks	24"		" " Vertical Struts	none	
ING.			Centre Girder, depth and thickness amidships	32" x 42	
idships, Angle \square or \square	8 3 36 N.B.S.		" " top Angles	3 3 40	
" Extends up to	Upper deck		" " bottom Angles	4 4 44 3 3 44	
Frame Amidships, Angle \square	6 3 36 N.B.S. 32		Side Girders, No. each side and thickness	2 at 40 1 at 36	30
" Extends up to	Upper deck		Margin Plate depth (excl. of flange) and thickness	23" x 36	
Framing Girder	8" x 6"		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{2}$ len. from stem	5 5 36 32	
Uppermost Continuous 'tween Decks, Angle, \square or \square			" " Vertical Angle to Tank side Bracket forward $\frac{1}{2}$ len. from stem		
Second 'tween Decks, Angle, \square or \square			" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem	none	
Third " " " "			" " Gussets, spacing and scantling forward $\frac{1}{2}$ len. from stem		
n Peaks, Angle \square or \square	6 3 30 N.B.S. 5 1 30		Tank Side Brackets, height above base line at toe of Frame and thickness	48" x 36 32	
and Spacing of Rivets through Frame and Shell Plating amidships	$\frac{3}{4}$ " - 5"		INNER BOTTOM PLATING, ENG. RM.		
Frame Joggled	4 10 4 10 peaks.		Breadth and thickness of Middle Line Strake	56" x 36 44" x 36	
ARRANGEMENTS (Sec. 7), state system and particulars	web & stringer as per plans		Thickness of remainder in Holds	7/8 under Eng. 7/8 under Eng.	
ENING OF BOTTOM FOR State Particulars	Girders as per plans Double frames		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	
OTTOM.			BEAMS.		
Depth and thickness at mid-line in Holds	30" x 42		Uppermost Continuous Deck, amidships in Way, Angle \square or \square	8 3 34 N.B.S.	
Height of Brackets at side above base line at toe of frame	60"		" " in way of Bridge, Angle, \square or \square		
Line Keelson, on Floors, Angle, \square or \square	12 x 3 1/2 x 42		Spacing	24"	
" " Through Plate	33 1/2 x 44		Second Deck, amidships, Angle \square or \square	10 3 1/2 40 N.B.S.	
" " Intercoastal Plate			Spacing	48"	
" " Foundation Plate on Floors			Third Deck, amidships, Angle, \square or \square		
" " Flat Plate Keel Angles	4 x 4 x 52		Spacing		
Side Keelsons, No. each side	2		Fourth Deck, amidships, Angle, \square or \square		
" " thickness of Intercoastal Plate	36		Spacing		
" " Angles	6 x 3 1/2 x 36		Poop Deck, Angle, \square or \square		
DOUBLE BOTTOM. Engine space			Spacing		
Solid Floors, thickness and spacing	36" 24" 30		Bridge Deck, Angle, \square or \square		
" " Are Frame and Reversed Frame joggled?	Frame = Yes No 1/2 under Eng. 1/2 under Eng.		Spacing		
Bracket Floors, breadth and thickness at middle line	none		Forecastle Deck, Angle, \square or \square		
" " breadth and thickness at margin plate	none		Spacing		

PILLARS AND DECKS.

	INCHES IN SHEET.	Any Departure from Approved Plans to be Noted.		INCHES IN SHEET.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows.....	3		Stringer Plate, breadth and thickness in way of Bridge	✓	
.. in 'tween Decks, Size and Spacing IC	8x3½x3½x.45 NBS.		Thickness of Plating abreast Deck openings in way of Wells	✓ 32	
" " " " "	10 ft apart		Thickness of Plating abreast Deck openings in way of Bridge	✓	
" in Holds in way of lower deck IC	8x3½x3½x.45 NBS.		Thickness of Plating within line of openings...	✓	
" " clear of lower deck IC	9x3½x3½x.46 NBS.		If Sheathed, material and thickness	✓	Comp aft in all none for
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing.....	none		Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of	none		If Plated, state thickness.....	✓	
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	✓	
Stringer Plate, breadth and thickness in Wells	85½x.52	87x.51	If Plated, state thickness	✓	
" " " " in way of Bridge	✓		Poop Deck.		
" Angle in Wells	6 6 .40		Stringer Plate, breadth and thickness	✓	
Thickness of Plating abreast Deck openings in way of Wells	✓ 38		Plating, Sheathing, material and thickness ..	✓	
Thickness of Plating abreast Deck openings in way of Bridge	✓		Bridge Deck.		
Thickness of Plating within line of openings...	✓		Stringer Plate, breadth and thickness.....	✓	
If Sheathed, material and thickness	none		Plating, Sheathing, material and thickness ..	✓	
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	45"x.36		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?			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	44"	.50	.46	.46		Double	3/4	3	3	3/4	2 3/8	Lapped	
„ DBLG. (if any)	-	-	-	-		✓	✓	✓	✓	✓	✓	✓	
BOTTOM PLATING, No.) of Strakes 4....}		.42	.38	.38	STEM PLATES FITTED .42	Double	3/4	3	3	3/4	2 3/8	Lapped	
BILGE PLATING, No. of) Strakes 1....}		.42	.38	.38	Do	"	3/4	3	3	3/4	2 3/8	"	
SIDE PLATING, No. of) Strakes 1....}		.42	.38	.38	Do	"	3/4	3	2	3/4	2 3/8	"	
UPPER DECK, Sheer-) strake in Wells.....}	51	.72	.38	.38	49 x .72	"	7/8	3 1/2	4	7/8	3 1/2	"	
UPPER DECK, Sheer-) strake in Bridge ...}	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
STRAKE BELOW Sheer-) strake in Wells.....}	59	.56	.38	.38	49" x .59.	Double	7/8	3 1/2	3	7/8	3 1/2	Lapped	
STRAKE BELOW Sheer-) strake in Bridge ...}	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
POOP SIDE PLATING	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
BRIDGE SIDE PLATING ...	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
FOREC'TLE SIDE PLATING	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	

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)	4					
" Deck next below	1					
As per Rule	6					

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks	20	4 x 3 x 32 L	30"		
" " Second "					
" " Third "					
" " Holds	34-20	5 x 3 x 32 1/2 L	30"	in way of 2 nd deck	
" " (in Hold)	34-30	5 x 3 x 32 1/2 L	24"	30 Ginder	
" " AFTER PEAK	35-30	5 x 3 x 30 L	24"		

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	✓	✓	✓	✓
STEM	Cast Steel	9 x 2 1/2	Darlington Forge	May 14
STERN FRAME	Propeller Post	✓	✓	✓
	Rudder	Forging	7 x 3 1/2	Darlington Forge
RUDDER—A x D	268	✓	✓	✓
Speed of Vessel	11 knots	✓	✓	✓
Bow main	Forging	4 1/2 x 3 1/2	T.S. Bow & Stern	
RUDDER mainpiece at head	Forging	7 1/2	Darlington	To aft
" " heel		5 1/2	Forge	
" " how constructed				
" " double or single plate				
" " coupling, vertical or horizontal		18 1/2 x 2 1/2		

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *open lead*
Consolidated Steel & Iron Co., Pease & Partners, Racine & Co., Cargo Steel & S. Co.
Frothingham S & I. Co. Dorman Long & Co

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

Lloyd's Register
Foundation

EQUIPMENT No <i>As approved</i>										LETTER		ANCHORS. 2B. 1S.			
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.			
34117.	1st Bower ...	53	0	14	<i>Stock less</i>			44	6	1	0	52.5	<i>Byno stockless</i>	<i>not stated</i>	<i>Sld. 8/8/32 A Green</i>
34134.	2nd „ ...	44	3	21	“			39	5	0	0	44.6	“	“	<i>Sld 12/8/32 A Green</i>
	3rd „ ...														
	Collective weight.	98	0	7											
92809	Stream	14	0	10	3	2	18	15	14	2	21	14.0	<i>Iron stock</i>	<i>N. Hingley & Sons</i>	<i>Netherton 15/7/32 H. Green</i>

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.					Length.	Cir.			
	Fathoms.	Ins.	Tons.	Tons.	Cwts. qrs. lbs.	Cwts.	Fathoms.	Ins.						Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
97883	135	2 1/16	76 5/10	107 1/10	287-1-20		} 270	2 1/16	stud	N. Hingley & Sons	Netherton 5/8/32 H. Green.	TOWLINE...	120	4 1/2	43.3	90	4 1/2		
97884	135	2 1/16	76 5/10	107 1/10	286-3-18			"	"	"	Netherton 17/8/32 H. Green.		HAWSERS & WARPS }	4 at 90	2 1/2	13.2	4 at 90	2 1/2	
	270				574-1-10	573 3/4													
		Cir.						Cir.											
Iron Stream Chain or Steel Wire	90	4 1/2		43.3				90	4 1/2	S. W.									
		S. W.																	

Steering Gear, Steam		Boats 2 @ 25'-0" x 7'-9" x 3'-2"		Steering Chains, Size and Test		Steering Gear, Hand		Jackle led to after Capstans	
		1 @ 16'-0" x 5'-9" x 2'-4" dinghy				None		Windlass 2 Steam Capstans	
Ceiling in Holds, thickness and material		No 2 :- 3" angle coaming with W.T. plate cover hinged		Cargo Battens, thickness, material and spacing		None			
Cargo Hatchways.-(Upper Deck)		No 3 :- 6" channel		Thickness of Hatches					
Size of No. 1 Hatchway (Forward)		No. 2 5'-9" x 4'-0"		No. 3 2 at 12'-3" x 4'-3"		No. 5		No. 6	
Number of Shifting Beams and/or Fore and Afters		None							

FOR
SWAN, HUNTER & WIGHAM RICHARDSON, LTD.
Builder's Signature *Thos Morrison*

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel *No* (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo *No* The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

This vessel has been constructed in accordance with the approved plans, the Secretary's letters and in other respects in conformity with the Society's rules & regulations. The materials & workmanship are good. The weather deck, watertight bulkheads have been hoist tested and the plate tanks, double bottom tanks & deck tanks have been tested as required by the rules and found satisfactory.

In view of the voyage to China the builders have fitted additional stiffening in No 2 & 3 holds and Engine room. In No 2 & 3 holds 1 lattice girder of 6x6 angles has been fitted port & starboard connecting bottom intercostal girder with deck girder. In Engine room 3 bolted struts port & starboard have been fitted.

The amount of Entry Fee	£ 6 : 0 : 0	Fees applied for, 11.1.1933	I am of opinion the Vessel should be Classed + 100A.1. "TRAIN FERRY" FOR "RIVER SERVICE"
Special Survey Fee....	£ 218 : 2 : 0	Received by me, 22.1.1933	
Travelling Expenses, if any £	:	:	
State whether the Vessel has been built under Special Survey <i>yes</i>		Signature <i>H. J. Craig</i>	Surveyor to Lloyd's Register of Shipping.
H&M Certificate to be Newcastle-on-Tyne		Date of issue <i>10/2/33</i>	

Committee's Minute **FRI. 10 FEB. 1933**
Character assigned **+ 100A.1**
Train Ferry
For River Service
Lloyd's ascl. + Lmb 2.33
22, 0.8.

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.)

The approved plans + forging + casting reports are forwarded herewith. Machinery Section + Profile as built are also attached.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.		Weight incl pins	Surveyor's Initials	N ^o of Certificate	Date of Test
1st Bower		34-3-7	P.T.B.	880	28-1-32
2nd "		28-1-21	P.T.B.	867	15-1-32
3rd "					

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle ☒ 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) 1 deck steel and 2nd deck aft of machinery space and at fore end

Official No. not yet received Signal Letters

Is bottom of Vessel coated with cement yes if not

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,		
Double bottom, if under Engines only,	32.0	92	Deep tank, aft,	12.0	76
Double bottom, if under Boilers only,			Deep tank, forward,	18.0	73
Double bottom, forward,			Other tanks, if fitted, Heating Tanks	44.0	131
Total capacity of double bottom		92	(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. 5453

Date 19.5.32

Dates of Surveys held while building

1932
Apr. 25. 26. 29. May 12. 18. 23. 26. 30. 31. June 2. 6. 8. 17. 27. July 8. 12. 14. 15. 18. 21. 25. 26. 27. Aug. 2. 3. 4. 5.
12. 15. 17. 22. 23. 26. 29. 30. 31. Sep. 1. 2. 5. 6. 7. 8. 9. 13. 15. 16. 19. 20. 21. 22. 26. 27. 28. 29. 30. Oct. 3. 4. 5. 7. 8. 12.
1933.
21. 26. 28. 31. Nov. 1. 3. 8. 9. 11. 22. Jan 13. Feb 2.

Total No. of Visits 7