

STEEL STEAMER OR MOTORSHIP.

Received at London Office

APR 12 1940

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

4th March 1940Port of *Hongkong*

No. 8541

Survey held at

*Hongkong*Date First Survey *19th May 1939*Last Survey *2nd March*

1940

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

*Single screw steamer "KARUAH"**Machinery aft.*

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

*Complete Superstructure with Tonnage opening*State Type of Erections *Complete Superstructure*

TONNAGE under Tonnage Deck

*943.08*CLASS *100 A1*
*"with Freeboard"*State if with freeboard as condition of Class *Yes*Built at *Hongkong*Launched *21st Dec. 1939* Yard No. *819*Builders *The Hongkong & Whampoa Dock Co. Ltd.*Owners *The Newcastle & Hunter River Steamship Co. Ltd.*Managers *✓*

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

Residence *147 Sussex St. Sydney*Port of Registry *Newcastle. N.S.W.*

If surveyed while building, afloat, or in dry dock

While Building

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

Total

943.08

Gross Tonnage

1341.88

Register Tonnage

514.55

REGISTERED DIMENSIONS.

FEET.

Length

232.25

Breadth

39.15

Depth

14.80

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

L 230.0

Breadth (greatest moulded)

B 39.0

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

D 23.5

1st Longitudinal Number (L x D)

= 5405

2nd Numeral L x (B + D)

= 14375

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

14.00'

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

9.58

Do. Long Bridge to top of keel

Draught Moulded

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.
FRAMES, Spacing amidships	24" ✓		Bracket Floors, Frame	✓	
" " from 1/2 length amidships to Collision bulkhead	✓		" " Reversed Frame	✓	
" " in peaks	24" ✓		" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	39" x .52 ✓	
Frame Amidships, Angle, E or F	7 x 3 x .33 ✓	6 1/2 x 3 x .38 ✓	" " top Angles <i>double</i>	3 x 3 x .48 ✓	
Bulkheads, B.R. & E.R.	7 x 3 x .37 ✓	6 1/2 x 3 x .44 ✓	" " bottom Angles <i>double</i>	3 1/2 x 3 1/2 x .42 ✓	
Extends up to	2 nd Deck ✓	See plan	Side Girders, No. each side and thickness	Three, 44 x .48 ✓	
Reversed Frame Amidships, Angle	3 x 3 x .38 ✓		Margin Plate depth (excl. of flange) and thickness	24" x .50 ✓	
Extends up to	top of floor ✓		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	3 x 3 x .44 ✓	
Depth of Framing Girder	7" ✓	6 1/2" ✓	" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area	✓	
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	5 x 3 x .28 ✓		" " Gussets, spacing and scantling abaft 1/2 len. from stem	✓	
" " Second 'tween Decks, Angle, E or F	✓		" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	✓	
" " Third " " "	✓		Tank Side Brackets, height above base line at toe of Frame and thickness	52" x .46 ✓	
" " from 1/2 len. for'd. to 15% len. from Stem	7 x 3 x .33 B.R. 6 1/2 x 3 x .38 ✓		INNER BOTTOM PLATING.		
" " in Peaks, Angle or F	5 1/2 x 3 x .28 ✓		Breadth and thickness of Middle Line Strake	.50 ✓	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4" 4/8" 5/8" ✓		Thickness of remainder in Holds	.50 ✓	
State if Frame Joggled	<i>Yes</i> ✓		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?	<i>Yes</i> ✓	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	<i>As approved</i> ✓		BEAMS.		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	<i>As approved</i> ✓		Uppermost Continuous Deck, amidships	5 1/2 x 3 x .40 B.A. ✓	
ANGLE BOTTOM.			" " in Wells, Angle, E or F	6 x 3 x .32 A ✓	
Floors, Depth and thickness at mid-line in Holds	24" x .38 x .42 ✓		" " in way of Bridge, Angle, E or F	✓	
Height of Brackets at side above base line at toe of frame	48" ✓		Spacing	24" ✓	
Middle Line Keelson, on Floors, Angles, E or F	4 x 4 x .38 ✓		Second Deck, amidships, Angle, E or F	8 x 3 x .42 B.A. ✓	
" " Through Plate or Intercostal Plate	48 x .40 ✓		Spacing	7 1/2 x 3 x .34 A ✓	
" " Foundation Plate on Floors	34" x .48 x .40 ✓		Third Deck, amidships, Angle, E or F	✓	
" " Flat Plate Keel Angles	4 x 4 x .54 x .50 ✓		Spacing	✓	
Side Keelsons, No. each side	Three ✓		Fourth Deck, amidships, Angle, E or F	✓	
" " thickness of Intercostal Plate	.34 ✓		Spacing	✓	
" " Angles	6 x 3 1/2 x .52 x .44 ✓		Poop Deck, Angle, E or F	4 x 3 x .30 ✓	
DOUBLE BOTTOM. in B.R.			Spacing	24" ✓	
Solid Floors, thickness and spacing	.48", 24" ✓		Boat		
" " Are Frame and Reversed Frame joggled?	<i>Yes</i> ✓		Bridge Deck, Angle, E or F	3 1/2 x 2 1/2 x .30 ✓	
Bracket Floors, breadth and thickness at middle line	✓		Spacing	30" ✓	
" " breadth and thickness at margin plate	✓		Forecastle Deck, Angle, E or F	5 1/2 x 3 x .34 ✓	
			Spacing	24" ✓	

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.....	<i>Two</i>		Stringer Plate, breadth and thickness in way of Bridge	✓	
" in 'tween Decks, Size and Spacing.....	<i>6 x 3 1/2 x 3 1/2 x 40</i>	<i>IL ✓</i>	Thickness of Plating abreast Deck openings in way of Wells	<i>36</i>	✓
" " <i>in F.P. Store</i> ✓	<i>4 x 4 x 44 A</i>	<i>48" Spacing ✓</i>	Thickness of Plating abreast Deck openings in way of Bridge	<i>32 where sheathed</i>	✓
" in Holds " "	<i>9 x 3 1/2 x 3 1/2 x 42</i>	<i>IL ✓</i>	Thickness of Plating within line of openings...	<i>34</i>	✓
" " " " " "	<i>20' x 16' Max. Spacing ✓</i>		If Sheathed, material and thickness <i>only</i>	<i>2 1/2 Pine in Accomodation</i>	✓
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing.....	<i>None</i>	✓	Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of	✓		If Plated, state thickness.....	✓	
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	✓	
Stringer Plate, breadth and thickness in Wells	<i>72" x 36 to 32</i>	✓	If Plated, state thickness	✓	
" " " " in way of Bridge	✓		Poop Deck.		
" Angle in Wells	<i>3 1/2 x 3 1/2 x 36</i>	✓	Stringer Plate, breadth and thickness	<i>26</i>	✓
	<i>3 x 3 x 32</i>	✓	Plating, Sheathing, material and thickness ...	<i>25, 2 1/4 Teak + Pine</i>	✓
Thickness of Plating abreast Deck openings in way of Wells	<i>32</i>	✓	Bridge Deck.		
Thickness of Plating abreast Deck openings in way of Bridge	<i>28 where sheathed</i>	✓	Stringer Plate, breadth and thickness.....	<i>24 x 25</i>	✓
Thickness of Plating within line of openings...	<i>30</i>	✓	Tie Plating, Sheathing, material and thickness ...	<i>25, 2 1/4 Teak</i>	✓
If Sheathed, material and thickness <i>only</i>	<i>2 3/4 Teak where exposed</i>	✓	Forecastle Deck.		
	<i>2 1/2 Pine in houses</i>	✓	Stringer Plate, breadth and thickness.....	✓	
Second Deck.			Plating, Sheathing, material and thickness ...	✓	
Stringer Plate, breadth and thickness in Wells...	<i>78" x 36</i>	✓			

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if Joggled?	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 ✓	Three	3/4 ✓	2 5/8 ✓	Strapped ✓	
„ DBLG. (if any)	9" x 1 1/2" Rubbing Piece all F + A ✓												
BOTTOM PLATING, No. of Strakes <i>Two</i>	A	44 ✓	48 ✓	40 ✓		Double ✓	3/4 ✓	3 ✓	Three + Two	3/4 ✓	2 5/8 ✓	Lapped ✓	
BILGE PLATING, No. of Strakes <i>Two</i>	B	44 ✓	40 ✓	40 ✓		Double ✓	3/4 ✓	3 ✓	" ✓	" ✓	" ✓	" ✓	
SIDE PLATING, No. of Strakes <i>One</i>	E ✓	44 ✓	40 ✓	40 ✓		Double + Single ✓	3/4 ✓	3 ✓	" ✓	" ✓	" ✓	" ✓	
UPPER DECK, Sheer-strake in Wells.....	9 75 ✓	44 ✓	40 ✓	40 ✓		Single ✓	" ✓	" ✓	" ✓	" ✓	" ✓	" ✓	
UPPER DECK, Sheer-strake in Bridge ...	✓												
STRAKE BELOW Sheer-strake in Wells.....	F	48 ✓	40 ✓	40 ✓		Single ✓	" ✓	" ✓	" ✓	" ✓	" ✓	" ✓	
STRAKE BELOW Sheer-strake in Bridge ...	✓												
POOP SIDE PLATING	✓												
BRIDGE SIDE PLATING ...	✓												
FOREC'TLE SIDE PLATING	✓												

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	<i>5</i>
Extending to Upper Deck (Sec. 3 c)	<i>2</i> ✓ <i>(Coll & Boiler Room)</i>
" Deck next below	<i>3</i> ✓
As per Rule	<i>4</i>

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar. Rubbing Piece.	<i>Rolled</i>	<i>9" x 1 1/2"</i>	<i>Bruden</i>	✓
STEM Pl. forging. p.t. Casting + plate	<i>Steel as per plan</i>			✓
STERN FRAME { Propeller Post	<i>Cast</i>	<i>as per</i>	<i>"</i>	✓
{ Rudder "	<i>Steel</i>	<i>plan</i>	<i>"</i>	✓
Speed of Vessel.....	<i>12 knots</i>			✓
RUDDER—Type. Ordinary. Double plate				✓
" A x D	<i>159</i>			✓
" Diam. of head	<i>Forging</i>	<i>6 1/4"</i>	<i>"</i>	✓
" Mainpiece at top pintle	<i>Cast</i>	<i>as per</i>	<i>"</i>	✓
" " heel ...	<i>Steel</i>	<i>plan</i>	<i>"</i>	✓
" how constructed	<i>Cast steel</i>	<i>rudder frame</i>		✓
" double or single plate	<i>welded to</i>	<i>rudder frame</i>		✓
" coupling, vertical or horizontal.....	<i>Vertical</i>			✓

STIFFENERS.

	Plating Thickness.	VERTICAL.				HORIZONTAL.			
		Scantlings.	Spacing.	Scantlings.	Spacing.	Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULK'D, Upper tween decks	<i>26</i>	<i>4 1/2 x 3 x 34</i>	<i>28</i>						
<i>First</i>	<i>26</i>	<i>4 x 3 x 30</i>	<i>24</i>						
" <i>Second</i>	<i>44</i>	<i>28 x 3 x 34</i>	<i>28</i>	<i>30</i>					
" <i>Third</i>	<i>73</i>	<i>34 x 26</i>	<i>7 x 3 x 38</i>	<i>30</i>					
" <i>Holds</i>	<i>101</i>	<i>37 x 30</i>	<i>8 x 3 x 34</i>	<i>24</i>	<i>21 x 34 Wd</i>	<i>18 x 34 Wd</i>	<i>6-6"</i>		
COLLISION (in Hold)	<i>108</i>	<i>40 x 30</i>	<i>8 x 3 x 36</i>	<i>24</i>	<i>WT Flat = Stringer</i>				
AFTER PEAK	<i>6</i>	<i>60 x 30</i>	<i>7 x 3 x 33</i>	<i>24</i>	<i>7 x 3 x 44</i>	<i>BA</i>	<i>Boss</i>		

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)	<i>O. H. Steel</i>
	<i>Australian Iron & Steel Co. Ltd., Broken Hill Proprietary Co. Ltd., Colvilles Ltd., Dorman Long, Cargo Fleet Iron Co., Consett Iron Co., Shelton Iron, Steel & Coal Co. Ltd., N. W. Rivet, Bolt & Nut Factory.</i>	
	Has the Steel been tested as required by the Rules?	<i>yes</i>

EQUIPMENT No 14993 ✓										LETTER p ✓		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.						
52284	1st Bower ...	30	3	21	✓			29	7	2	0	Cwts.	Stockless ✓	✓	Bradley Heath 17-4-39		
52285	2nd „ ...	30	3	0		✓		29	3	3	0		„		- do -		
52286	3rd „ ...	26	0	18			✓	25	14	1	14		„		- do -		
	Collective weight.	87	3	11	✓							87 Cwts ✓			Paul		
52343	Stream	7	3	14	✓	2	0	0	✓	10	0	1	7	7-3-0 ✓	Iron Stock ✓	per Hingley & Sons. ✓	Bradley Heath 16-5-39

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.
58634	240 ✓	1 3/4	55 1/2 ✓	77 1/2 ✓	390-3-15	319 1/2 ✓	240 ✓	1 5/8 ✓	Stud Link	Hingley & Sons	Bradley Heath	16-5-39	Paul.	TOWLINE...	90	3 1/4 ✓	21.7 ✓	90	3 1/4 ✓
														HAWSERS & WARPS }	2 at 90 ✓	2 1/4 ✓	10.8 ✓	2 at 90 ✓	2 1/4 ✓
														"	2 at 90 ✓	1 3/4 ✓	6.4 ✓	2 at 90 ✓	1 3/4 ✓
Iron Stream Chain on Steel Wire	75 ✓	3 3/4	29.3 ✓				75 ✓	3 3/4	Steel Wire 6x12	British Rope	British Rope			"	120.	6" Manila		Owners Requirements	
														"	240.	5"	"		
														"	360	4 1/2	"		

Steering Gear, Type (Power or hand) <i>Steam, John Hastie & Co. Ltd</i>										Alternative Means of Steering <i>Hand, by John Hastie & Co.</i>				
Steering Chains (Size and Test) ✓										Windlass <i>Steam, Clarke - Chapman</i>				
Ceiling in Holds, thickness and material <i>3" Hardwood, 4" in way of hatches</i>										Cargo Battens, thickness, material and spacing <i>2" O. Pine, 6" spacing</i>				
Cargo Hatchways. — (Upper Deck) <i>Coamings 30" x 4 1/4</i>										Thickness of Hatches <i>2 3/4" O. Pine</i>				
Size of Hatchways No. 1 (Fwd.) <i>34' x 14'</i>										No. 2 <i>40' x 14'</i>				
No. 3 ✓										No. 4 ✓				
No. 5 ✓										No. 6 ✓				
Number of Shifting Beams and/or Fore and Afters <i>Nº 1, 6. Nº 2, 7. Plate 12" x 32" with 3 x 3 x 42 double angles, top + bottom.</i>										HONGKONG & WHAMPOA DOCK Co., Ltd.				
Builder's Signature										<i>Hooh.</i> CHIEF MANAGER				

GENERAL 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 <i>No</i>														
(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo <i>No</i>														
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).														
<i>This vessel has been built under special survey in accordance with the approved plans & instructions, the materials have been tested by the Surveyors to this Society and the workmanship, is in my opinion satisfactory. All tanks, weather decks & bulk-heads have been satisfactorily tested to rule requirements.</i>														
<i>The Freeboards assigned have been marked on the vessel's sides & cut in, freeboard report, verification form & request form have been forwarded to London.</i>														

The amount of Entry Fee £10 = \$ 162										Fees applied for,				
Freeboard £15 = \$ 243										<i>24 Mar 1940</i>				
Special Survey Fee... £168-8/- = \$ 4349										Received by me,				
Cablegrams \$ 11										I am of opinion the Vessel should be Classed <i>+100 A 1</i>				
Travelling Expenses, if any \$ 150										<i>"with freeboard"</i>				
Total \$ 4915										Signature <i>Y. S. Morrison</i>				
State whether the Vessel has been built under Special Survey <i>Yes</i>										Surveyor to Lloyd's Register of Shipping.				
Certificate to be sent to <i>Hongkong</i>										Date of issue <i>19/2/41</i>				

Committee's Minute														
Character assigned <i>+100 A 1 Subject With freeboard</i>														
<i>Lloyd's do. cl. 2 W.T.B., Sph. 2 D.,</i>														
<i>Write Y.S. Morrison</i>														

FRI 19 APR 1940

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Lloyd's Register Foundation

0245 2/2

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.)

No sister vessel

Plans approved K&C, copies in the London Office.

Midship Section & profile of vessel as built & forging reports enclosed.

Certificates for steering gear enclosed.

PARTICULARS OF ELECTRIC WELDING (if employed) Stringer plates at 2nd deck welded to shell (continuous) & 3" x 3/4" flat bar tack welded to frames with continuous weld to deck in lieu of stringer angle on 2nd deck. Rudder plates welded to cast steel frame.

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

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

1st Bower 16-3-13, R.D.D., 30479, 10-3-39
2nd „ 17-1-8, R.D.D., 30478, 10-3-39
3rd „ 15-3-11, F.H., 20103, 14-6-38

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 or Forecastle are joined to the B.D., this should be distinctly stated ✓

Official No. Signal Letters Extreme Breadth over Belting 40'-11 1/2" Over-all Length 241.5' ✓
(Circ. 1611) (Circ. 1703)

No. and Material of Decks Two, Steel

Parts of Bottom of Vessel coated with cement or approved composition All cement, except E & B. spaces.

Particulars of composition (if fitted) and of approval Bitumastic Composition in E & B. spaces.

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. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	✓ 16.0		Fore peak tank,	13.5	35.25
Double bottom, under Engines and Boilers,	✓		After peak tank,	12.0	26.00
Double bottom, if under Engines only,	✓		Deep tank, aft,	✓	
Double bottom, if under Boilers only,	16.0	47.1	Deep tank, forward,	14.0	103.50
Double bottom, forward,	✓		Other tanks, if fitted,	✓	
Total length (if continuous) and Capacity	16.0	47.1	(If necessary, furnish further information by sketch.)	✓	

Order for Special Survey No.

Date 23rd Jan. 1939

Dates of Surveys held while building

1939

May 19, 30 June 5, 10, 16, 26, July 4, 11, 14, 18, 22, 25, 26, 28, 31, Aug. 2, 4, 8, 9, 15, 21, 23, 28, Sept. 1, 5, 9, 14, 18, 20, 22, 25, 28, 30. Oct. 3, 4, 9, 14, 17, 18, 24, 26, 31. Nov. 2, 9, 10, 14, 18, 24, 28. Dec. 1, 4, 8, 12, 14, 16, 18, 21, 27. 1940 Jan. 2, 5, 17, 19, 23, 29, 31, Feb. 5, 12, 22, 26, 29. March 2.

Total No. of Visits 71