

STEEL STEAMER OR MOTORSHIP

Received at London Office

MAY 18 1938

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 *7th April 1938.*Port of *Hongkong*No. *8049*Survey held at *Hongkong*Date First Survey *7th June 1937*Last Survey *4th April*

1938

On the (State if Machinery fitted Aft and) *Steel Twin Screw LIWO*

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

*Light Scantling River Steamer*State Type of Erections *Combined Bridge and Forecastle*TONNAGE under Tonnage Deck... *319.61*CLASS *on the Yangtze River* State if with freeboard as condition of Class *No*Built at *Hongkong*

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 164.9'*Launched *Feb. 10th 1938* Yard No. *778*Total *319.61*Breadth (greatest moulded) *B 30.0'*Builders *The Hongkong & Whampoa Dock Co.*Gross Tonnage *707.28*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 9.5'*Owners *The Indo-China Steam Navigation Co.*Register Tonnage *341.78*1st Longitudinal Number (L x D) *= Special*Managers *Jardine Matheson & Co.*

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

2nd Numeral L x (B + D) *= Scantling*Residence *Hongkong*

REGISTERED DIMENSIONS. FEET.

Length *163.8'*Framing Depth "d." at middle of length. See Sec. 3 (1d) *8.5'*Breadth *30.1'*Proportions—Depth to Length—Uppermost continuous deck to top of keel *17.35'*Port of Registry *Hongkong*Depth *9.15'*Do. Long Bridge to top of keel *9.9'*

If surveyed while building, afloat, or in dry dock

Draught Moulded

While Building

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	22"	✓	Bracket Floors, Frame	✓	
" " from $\frac{3}{4}$ length to Collision bulkhead	"	✓	" " Reversed Frame	✓	
" " in peaks	"	✓	" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	2'9" x 20	✓
Frame Amidships, Angle, [or]	3 x 2 x 25	✓	" " top Angles <i>double</i>	2 x 2 x 20	✓
Tween deck frames (angles)	2 1/2 x 2 x 20	✓	" " bottom Angles <i>double</i>	2 x 2 x 20	✓
Extends up to <i>upper deck</i>	✓		Side Girders, No. each side and thickness	Two 30	✓
Web frames at 10, 14, 21, 22, 36, 45, 50, 54, 69, 75	4 x 14 plate	✓	Margin Plate (Side Girder) depth (excl. of flange) and thickness	3 3/4" x 30	✓
Reversed Frame Amidships, Angle, [or]	2 x 2 x 20	✓	" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	2 x 2 x 20 <i>double</i>	✓
in E & B. spaces	✓		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	✓	
Extends up to <i>Top of floor</i>	✓		" " Gussets, spacing and scantling abaft 1/2 len. from stem	✓	
Depth of Framing Girder	3"	✓	" " Gussets, spacing and scantling forward 1/2 len. from stem	✓	
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	2 1/2 x 2 x 20	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	✓	
" " Second 'tween Decks, Angle, [or]	✓		INNER BOTTOM PLATING.		
" " Third " " " "	✓		Breadth and thickness of Middle Line Strake	24" x 15	✓
Framing in Peaks, Angle or [or]	3 x 2 x 25	✓	Thickness of remainder in Holds	10" x 40 at engine casing	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/16 x 1/2 rivets 5 1/2" diam.	✓	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>	✓
State if Frame Joggled	<i>Yes</i>	✓	BEAMS.		
PAINTING ARRANGEMENTS (Sec. 7), state system and particulars	<i>Painting Stringer 9" x 14" + beams 2 1/2 x 2 x 20 W.T. Flat. side keelsons 2 ft. off C.L.</i>	✓	Uppermost Continuous Deck, amidships in Wells, Angle, [or]	2 1/2 x 2 x 20	
TRENGTHENING OF BOTTOM FORWARD. State Particulars			" " in way of Bridge, Angle, [or]	✓	
ANGLE BOTTOM.			Spacing	22"	
Floors, Depth and thickness at mid-line in Holds	12" x 14"	✓	<i>Upper</i> Second Deck, amidships, Angle, [or]	3 x 2 x 25	
Height of Brackets at side above base line at toe of frame	<i>None</i>	✓	Spacing	22"	
Middle Line Keelson, on Floors, Angles, [or]	3 x 2 x 25 <i>double</i>	✓	Third Deck, amidships, Angle, [or]	✓	
" " Through Plate or Intercoastal Plate	15 x 20	✓	Spacing	✓	
" " Foundation Plate on Floors	8 x 15 each <i>Side</i>	✓	Fourth Deck, amidships, Angle, [or]	✓	
" " Flat Plate Keel Angles	2 x 2 x 20 <i>double</i>	✓	Spacing	✓	
Side Keelsons, No. each side	Two		Poop Deck, Angle, [or]	✓	
" " thickness of Intercoastal Plate	20 flanged <i>to shell</i>	✓	Spacing	✓	
" " Angles <i>Top</i>	2 1/2 x 2 x 20	✓	<i>Shade</i> Bridge Deck, Angle, [or]	2 x 2 x 20 <i>approved</i>	
DOUBLE BOTTOM. in E. & B. only			Spacing	22" <i>additional girder fitted 4 ft. off C.L. p. 3.</i>	
Solid Floors, thickness and spacing	22, 22"	✓	Forecastle Deck, Angle, [or]	✓	
" " Are Frame and Reversed Frame joggled?	<i>Yes</i>	✓	Spacing	✓	
Bracket Floors, breadth and thickness at middle line	✓				
" " breadth and thickness at margin plate	✓				

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.....	Five	✓	Stringer Plate, breadth and thickness in way of Bridge	✓	
" in 'tween Decks, Size and Spacing.....	2" dia. Tubular	✓	Thickness of Plating abreast Deck openings in way of Wells	.125	Approved .12 ✓
" " " " " "	5'-6" x 4'-6"	✓	Thickness of Plating abreast Deck openings in way of Bridge	✓	
" in Holds " " "	2 1/2" dia. Tubular	✓	Thickness of Plating within line of openings...	.125	.12 ✓
" " " " " "	5'-6" x 4'-6"	✓	If Sheathed, material and thickness	not sheathed	✓
Centre Line Bulkhead, in oil tanks			Third Deck.		
Stiffeners and Spacing.....	2 1/2 x 1 1/2 x 20	✓	Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of	3/16 to .15	✓	If Plated, state thickness.....	✓	
with horizontal girder 11" x .14			Fourth Deck.		
STRINGERS AND DECKS.			Stringer Plate, breadth and thickness.....	✓	
Uppermost Continuous Deck.			If Plated, state thickness	✓	
Stringer Plate, breadth and thickness in Wells	38" x .26	approved 38" x .22	Poop Deck.		
" " " " in way of Bridge	.20 at ends	.18 at ends	Stringer Plate, breadth and thickness	✓	
" Angle in Wells	2 1/2 x 20	✓	Plating, Sheathing, material and thickness	✓	
Thickness of Plating abreast Deck openings in way of Wells	.156	approved .14	Bridge Deck.		
Thickness of Plating abreast Deck openings in way of Bridge	.156	.14	Stringer Plate, breadth and thickness.....	12" x .156	approved 9" x .14
Thickness of Plating within line of openings...	.156	.14	Tie Plating, Sheathing, material and thickness	.156. 1 1/4" Teak	.14 ✓
If Sheathed, material and thickness	not sheathed		Forecastle Deck.		
Upper Second Deck.			Stringer Plate, breadth and thickness.....	✓	
Stringer Plate, breadth and thickness in Wells...	40" x .20	approved 40" x .18	Plating, Sheathing, material and thickness	✓	
	.1875 at ends	.14 at ends			

SHELL PLATING.

SCANTLINGS.					RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?		RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.		SINGLE OR DOUBLE.	RIVETS.	No. OF ROWS OF RIVETS.	RIVETS.	STRAPPED OR LAPPED.	
	Inches.	Inches.	Inches.	Inches.			Diam. Spacing cr. to cr.		Diam. Spacing cr. to cr.		
FLAT PLATE KEEL	36	.25	.20	.20		Double	1/2" 2"	Four Two	1/2" 1 3/4"	Strapped & Lapped at ends	
" DBLG. (if any)	Compensation plate fitted at Bulkheads.										
BOTTOM PLATING, No. of Strakes ..I.W.R..)	A+B	.1875	.1875	.1875		Single + Double in O.T.	7/16" 1 3/4" 1/2" 2"	Four + Two	7/16 1 1/2 1 3/4	do-	
BILGE PLATING, No. of Strakes ..one.....	C	.20	.1875	.1875		- do -	- do - do -	- do -	7/16 1 1/2 1 3/4	do-	
SIDE PLATING, No. of Strakes ..one.....	D	.1875	.1875	.1875		- do -	- do - do -	Two	7/16 1 1/2 1 3/4	Lapped	
UPPER DECK, Sheer-strake in Wells.....	E 48	.20	.1875	.1875	approved .1875	- do -	- do - do -	Two	7/16 1 1/2 1 3/4	do-	
UPPER DECK, Sheer-strake in Bridge ...	G 24	.20	.20	.20		Single	1/2" 2"	Two	1/2 1 3/4	do-	
STRAKE BELOW Sheer-strake in Wells.....	F	.12	.12	.12		Single	7/16" 1 3/4" 1/2" 2"	One	3/8 1 5/16	do-	
STRAKE BELOW Sheer-strake in Bridge ...	✓					✓					
POOP SIDE PLATING	✓					✓					
BRIDGE SIDE PLATING ...	✓					✓					
FORECASTLE SIDE PLATING	✓					✓					

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel	6 BH
Extending to Upper Deck (Sec. 3 c)	8
" Deck next below	✓
As per Rule	4

STIFFENERS.

	Plating Thickness.	VERTICAL.	HORIZONTAL.
		Scantlings Spacing.	Scantlings Spacing.
MIDSHIP BULKHEAD, Upper 'tween decks	Frame 54 .156 .12	2 1/2 x 1 1/2 x 20	21 to 24 spacing
" " " "	Frame 58 .156 .15	2 1/2 x 1 1/2 x 25	24 to 26
" " " "	Frame 63 - do - do	- do - do	- do - do
" " " "	Frame 81 .156 .12	2 1/2 x 1 1/2 x 20	21 to 24
" " " "	Frame 28 - do - do	- do - do	- do - do
" " " "	Frame 39 - do - do	- do - do	- do - do
COLLISION " (in Hold)	.156 .12	- do - do	- do - do
AFTER PEAK " "	.16 .15	- do - do	- do - do

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	✓			
STEM	Bottom Section Cast Steel	Shaped Builders	✓	
No STERN FRAME	Propeller Post	- do -	as per plan	- do - ✓
	Rudder Bearers	- do -	- do -	✓
RUDDER-A x D	Balanced, as approved.			
Speed of Vessel	12 1/2 knots			
RUDDERS	mainpiece at head	Cast Steel	6 1/2 dia	- do - ✓
" " heel	Rudder frame	5" dia.	at top	✓
" how constructed	steel combined.			
" double or single plate	Double 3/8"			
" coupling, vertical or horizontal	None			

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) O. H. Steel
Dorman Long, The Steel Co. of Scotland, The Lanarkshire Steel Co. Consett Iron Works, The Scottish Iron & Steel Co. The N.W. Rivet, Bolt & Nut Factory.
 Has the Steel been tested as required by the Rules? Yes

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EQUIPMENT No. ✓										LETTER ✓	ANCHORS.				
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 03.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.				
50251	1st Bower	14	0	0	✓			15	12	2	0	✓	Quick Grip		Bradley Heath
50253	2nd "	12	1	12	✓	so		14	4	0	7	✓	Stockless	✓	16 th April 1937
50254	3rd "	12	0	21	✓	specified		14	1	3	14	✓			Paul
	Collective weight.	38	2	5	✓										
50252	Stream	7	0	8	✓	apptd		9	7	0	21	✓			-do-

CHAIN CABLES.												HAWSERS AND WARPS.					
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and Size per Table 58.		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 58.	
	Length.	Diam.	Statio- tory.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Tons.	Length.
	Fathoms.	Ins.	Tons.	Tons.	Owts.	qrs.	lbs.	Owts.	Fathoms.	Ins.			Fathoms.	Ins.	Tons.	Fathoms.	Ins.
54490	180	1 1/8	34		117	3	7			Stud Link	Bradley Heath 27 th April 1937 Paul	TOWLINE	150	2 3/4	22.3		
												HAWSERS & WARPS	4 at 90	2 1/4	15.0		
													2 at 90	4	Manila Rope		
													120	2 1/2	"		
													120	1	"		
From Stream Chain—or Steel Wire	60	2 3/4	✓	22.3						Steel Wire	British Rope Ltd						

Steering Gear, Steam *Hastie & Co. Greenock* Steering Gear, Hand *Hastie & Co. Greenock*
 Bents *Two Sampsons only.* Steering Chains, Size and Test *None* Windlass *Two Capstan Windlasses by J. & W. Reid & Sons, Paisley.*
 Ceiling in Holds, thickness and material *1" O. Pine.* Cargo Battens, thickness, material and spacing *6" x 1" O.P.*
 Weather Deck *N=1 Coaming 8" x 20"* *N=2, 4 x 1 3/4 x .25 B.A. oil tight*
 Cargo Hatchways. (Upper Deck) *N=1* *2 x 2 x .20 A* *N=3, 4 x 1 3/4 x .25 B.A. oil tight* Thickness of Hatches *1 1/4" Pine + 1 1/8" Pine. Steel covers on oil tanks - 10 thick*
 Size of No. 1 Hatchway (Forward) *23'-10" x 8'-0" No. 2 7'-6" x 5'-6" No. 3 7'-6" x 5'-6" No. 4 7'-6" x 5'-6" No. 5*
 Number of Shifting Beams and/or Fore and Aft *Three 6" x .50 B.A. with 2 x 2 x .25 mounting angles on N=1 hatch only.*
 THE HONGKONG & WHAMPOA DOCK Co., Ltd.
 Builder's Signature *Hood*

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 *In deep Tanks* The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

It is intended to carry wood oil as cargo in the deep tanks fore of Stokahold & aft of Engine room. Flash point above 150° F.

This vessel has been built under special survey in accordance with the approved plans & instructions, the materials have been tested by the Surveyor to this Society & the workmanship is, in my opinion satisfactory. All tanks, weather decks, cofferdams & bulkheads have been satisfactorily tested to rule requirements.

The amount of Entry Fee £ 8 : } Fees applied for, *5th April 1938*
 Special Survey Fee.... £ 141-12/- : } Received by me, *73-6 19 38*
 Travelling Expenses, if any £ : *150*

I am of opinion the Vessel should be Classed *+ A 1*
"For Service on the Yangtze River"

State whether the Vessel has been built under Special Survey *Yes*
 Certificate to be sent to *Hong Kong* Date of issue *24/6/38*

Signature *J. H. Morrison*
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Character assigned

TUE. 17 MAY 1938

+ A 1

*For Service on the Yangtze River
 Carrying Cargo oil at above 150° F in Deep Tanks*

Lloyd's Assoc.

*+ Lamb 4.38
 2 (W.T./Bles)*

RD, 2020

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.)

No sister vessel.

Plans approved H&B, copies in the London Office.

Midship section of vessel as built + steel casting reports enclosed.

Approved plan of rudder quadrants returned.

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

1st Bower	<i>Curr light</i> 7-3-5	M.A.B.	4575	29-1-30
2nd "	7-0-21	M.A.B.	4568	24-1-30
3rd "	7-0-10	M.A.B.	224	4-3-27
Stream	3-3-14	M.A.B.	4707	27-3-30

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle *146-57* ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated *Long Bridge + fore-castle combined.*

No. and Material of Decks (this information is to be given as it should appear in the Register Book) *Two Decks, Steel*

Official No. *159479* ; Signal Letters *VRBB* Is bottom of Vessel coated with cement *no* if not give particulars of composition *Bitumastic solution.*

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length.	Water Capacity.	Where Fitted.	*Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,			Fore peak tank,	14' 0"	17.28 ✓
Double bottom, under Engines and Boilers,	11' 0"	8.89 ✓	After peak tank,	✓	
Double bottom, ^{between} if under Engines only,			Deep tank, aft, Centre	40' 4"	106.86
Double bottom, if under Boilers only,			Deep tank, forward, Port & Stbd	16' 6"	112.90
Double bottom, forward,			Other tanks, if fitted,	✓	
	Total capacity of double bottom	8.89 ✓	(If necessary, furnish further information by sketch.)		

Order for Special Survey No.

Date *18th Feb 1937*

Dates of Surveys held while building

1937 June 7, 16, 24, 30, July 6, 9, 15, 19, 23, 27, Aug 2, 8, 13, 18, 24, 30, Sept 7, 9, 11, 13, 16, 23, 24, 25, 27, 30, Oct. 2, 5, 7, 12, 16, 18, 19, 21, 26, Nov. 1, 4, 8, 10, 15, 19, 22, 23, 30, Dec. 6, 8, 10, 11, 14, 15, 18, 20, 23, 28, 1938 Jan. 5, 13, 18, 25, 28, Feb. 3, 5, 10, 14, 18, 22, 26, Mar. 1, 8, 14, 18, 26, 30, April 1-4.

Total No. of Visits *74*