

STEEL STEAMER ~~MOTORSHIP~~

24 DEC 1930

Received at London Office.

State if Report has been sent on the Freeboard of the Vessel ✓

State if Report is sent on the Machinery of the Vessel ✓

Date of completion of report 29TH NOVEMBER 1930

Port of SHANGHAI

No. 3068

Survey held at SHANGHAI

Date First Survey 2ND OCTOBER 1929 Last Survey 26TH NOVEMBER, 1930

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) STEEL TWIN SC. TWIN M/S. "PAO WO" (MACHINERY FITTED AFT.)

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) LIGHT SCANTLING, FOR RIVER SERVICE, WITHOUT TONNAGE OPENINGS State Type of Erections CLOSED TWEEN DECK

TONNAGE under
Tonnage Deck...)Do. of space or spaces
between Tonnage Dk.
and Upper Dk.

Total

Gross Tonnage 2517

Register Tonnage 1494

REGISTERED DIMENSIONS.
FEET.

Length 280.0

Breadth 48.1

Depth 9.7

CLASS ☒ FOR RIVER SERVICE State if with freeboard
as condition of Class

No.

FEET.

Length from fore part of stem to after part of stern
post on summer L.W.L. See Sec. 3 (1a) } L 280.00

Breadth (greatest moulded) B 48.00

Depth, at middle of length from top of keel to top
of beam at side of uppermost continuous
deck. See Sec. 3 (1c) D 10.00

1st Longitudinal Number (L x D) = 2800

2nd Numeral L x (B + D) = 16240

Framing Depth "d," at middle of length. See
Sec. 3 (1d) 8.83Proportions—Depth to Length—Uppermost con-
tinuous deck to top of keel 15.55Do. Long Bridge to top
of keel ✓

Draught Moulded 8'-6"

Built at SHANGHAI

Launched AUGUST 12th 1930 Yard No. 1784

Builders THE SHANGHAI DOCK & ENGINEERING CO. LD.

Owners THE INDO-CHINA STEAM NAVIGATION CO. LD.

Managers MESSRS. JARDINE MATHESON & CO. LD.
(Where necessary to be entered in Reg. Book.)

Residence 27 THE BUND, SHANGHAI

Port of Registry SHANGHAI

If surveyed while building, afloat, or in dry dock

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.
MES. Spacing amidships	24"		Bracket Floors, Frame		
" " from $\frac{3}{4}$ length to Collision bulkhead.....	24"		" " Reversed Frame		
" " in peaks.....	21"		" " Vertical Struts		
E FRAMING.			Centre Girder, depth and thickness amidships		
ame Amidships, Angle, \angle or \angle	4" 3" $\frac{1}{20}$ "		" " top Angles		
" " Extends up to	UPPER DECK		" " bottom Angles		
versed Frame Amidships, Angle	FLOORS FRAMED IN LIEU OF REVERSE		Side Girders, No. each side and thickness		
" " Extends up to...	✓ ✓ ✓		Margin Plate depth (excl. of flange) and thickness		
Depth of Framing Girder.....	4"		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem		
Frames in Uppermost Continuous 'tween Decks, Angle, \angle or \angle	4" 3" $\frac{1}{20}$ "		" " Vertical Angle to Tank side Bracket forward $\frac{1}{4}$ len. from stem		
" " Second 'tween Decks, Angle, \angle or \angle	✓		" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....		
" " Third " " " "	✓		" " Gussets, spacing and scantling forward $\frac{1}{4}$ len. from stem.....		
Framing in Peaks, Angle \angle	4" 3" $\frac{1}{20}$ "		Tank Side Brackets, height above base line at toe of Frame and thickness		
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships	$\frac{5}{8}$ " RIVETS $\frac{1}{2}$ " P.		INNER BOTTOM PLATING.		
State if Frame Joggled	YES		Breadth and thickness of Middle Line Strake ...		
STRENGTHENING ARRANGEMENTS (Sec. 7), state system and particulars)	TANK FLAT FORWARD ONLY		Thickness of remainder in Holds		
STRENGTHENING OF BOTTOM FOR- WARD. State Particulars	✓		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?.....		
DOUBLE BOTTOM.			BEAMS. MAIN		
Floors, Depth and thickness at mid-line in Holds	14" x $\frac{1}{20}$ "		Uppermost Continuous Deck, amidships in Walls, Angle, \angle or \angle	4 1/2" 3" 1/20"	
Height of Brackets at side above base line at toe of frame	2'-4"		" " in way of Bridge, Angle, \angle or \angle	angle	
Middle Line Keelson, on Floors, Angles, or	3" x 3" x $\frac{1}{20}$ "		Spacing	2 1/4"	
" " " Through Plate \angle Intercostal Plate.....	14" x $\frac{1}{20}$ "		UPPER Deck, amidships, Angle, \angle or \angle	4" 3 1/2" 1/20"	
" " " Foundation Plate on Floors	24" x $\frac{1}{20}$ "		Spacing.....	24"	
" " " Flat Plate Keel Angles	3" x 3" x $\frac{3}{8}$ "		Third Deck, amidships, Angle, \angle or \angle		
Side Keelsons, No. each side	TWO		Spacing.....		
" " thickness of Intercostal Plate...	1/4"		Fourth Deck, amidships, Angle, \angle or \angle		
" " Angles SINGLE CONTINUES PLATE FACE ANGLE SHELL RUG	6" x 3" x $\frac{3}{8}$ " 4" x $\frac{1}{20}$ " 3" x 3" x $\frac{1}{20}$ " 22" x 22" x $\frac{1}{4}$ "		Spacing.....		
Solid Floors, thickness and spacing			Poop Deck, Angle, \angle or \angle		
" " Are Frame and Reversed Frame joggled?.....			Spacing.....		
Bracket Floors, breadth and thickness at middle line.....			Bridge Deck, Angle, \angle or \angle THROUGHOUT	3 1/2" 2 1/2" 1/4"	
" " breadth and thickness at margin plate.....			Spacing.....	24"	
			Forecastle Deck, Angle, \angle or \angle		
			Spacing.....		

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 [C	5' x 2 1/2" x 2 1/2" x 5/8"		Thickness of Plating abreast Deck openings in way of Wells		
TWO ROWS EACH SIDE, SPACING	14'-0" MIN."		Thickness of Plating abreast Deck openings in way of Bridge		
" " " " "	22'-0" MAX."		Thickness of Plating within line of openings...		
ONE ROW AT CENTRE	3" x 1/4" TUBES		TIE PLATES	9" x 1/4"	
" in Holds " " [C	6'-0" APART		If Sheathed, material and thickness O. PINE COVERED WITH CANVAS	1 1/4" THICK	
TWO ROWS EACH SIDE, SPACING	14'-0" MIN."				
" " " " "	22'-0" MAX."		Third Deck.		
Centre Line Bulkhead.			Stringer Plate, breadth and thickness.....		
Stiffeners and Spacing... PLATES FLANGED	4", 4'-0" APART		If Plated, state thickness.....		
Plating, thickness of	1/4"		Fourth Deck.		
MAIN STRINGERS AND DECK.			Stringer Plate, breadth and thickness.....		
Uppermost Continuous Deck.			If Plated, state thickness		
Stringer Plate, breadth and thickness WELLS AMIDSHIPS	36" x 3/8"		Poop Deck.		
" " " " in way of Bridge			Stringer Plate, breadth and thickness		
" Angle in WELLS AMIDSHIPS	3" x 3" x 3/8"		Plating, Sheathing, material and thickness ...		
Thickness of Plating abreast Deck openings) in way of Wells	1/4"		Bridge Deck.		
Thickness of Plating abreast Deck openings) in way of Bridge			Stringer Plate, breadth and thickness.....	15" x 1/4"	
Thickness of Plating within line of openings...	1/4"		TIE PLATES	6" x 5/16"	
If Sheathed, material and thickness			Plating, Sheathing, material and thickness ... OREGON PINE COVERED WITH CANVAS	1 1/4" THICK	
Second Deck, UPPER DECK			Forecastle Deck.		
Stringer Plate, breadth and thickness in WELLS...	30" x 1/20"		Stringer Plate, breadth and thickness.....		
			Plating, Sheathing, material and thickness ...		

SHELL PLATING.

[illegible]

WATERTIGHT BULKHEADS.

Total No. of **W.T. BULKHEADS** in Vessel—

Extending to Upper Deck (Sec. 3 c)

„ Deck next below 8

As per Rule

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	✓	✓	✓	✓
STEM	FORGING	6 $\frac{1}{4}$ " x 12"	SHANGHAI DOCK + ENG. CO. LD	✓
STERN FRAME {	Propeller Post	" 6 $\frac{1}{2}$ " x 3"	"	
	Rudder "	" 6 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ "	"	
RUDDER —A x D. 4.5 x 28 x 3.33 =	150.48		TWO RUDDERS FITTED	
Speed of Vessel	10 KNOTS		SHANGHAI DOCK	
RUDDER mainpiece at head ...		6 $\frac{1}{2}$ " DIA	ENG. CO. LD	
" " heel ...		4 $\frac{1}{2}$ " x 6"	"	
" how constructed	SOLID	FRAME WITH STAY ARM		
" double or single plate	DOUBLE	6" THICK		
" coupling, vertical or	HORIZONTAL	1 $\frac{5}{8}$ " THICK		
" horizontal				

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D,	Upper <u>between decks</u>					
END OIL TANK & COFFERDAM BULKHEADS						
"	" SECOND "	$\frac{1}{16}$ "	$4 \times 3 \times \frac{1}{2}$ "	24"		
MIDDLE OIL TANK	THIRD <u>BULKHEAD</u>	$\frac{1}{16}$ "	$6 \times 3 \times .38$ "	24"		
"	" Hold ... <u>AFT</u> ...	$\frac{1}{16}$ "	$4 \times 3 \times \frac{1}{2}$ "	32"	✓	✓
COLLISION	" (in Hold)	$\frac{1}{16}$ "	$4 \times 3 \times \frac{1}{2}$ "	24"	✓	✓
AFTER PEAK	" "	$\frac{1}{16}$ "	$4 \times 3 \times \frac{1}{2}$ "	32"	✓	✓

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) LANARKSHIRE STEEL CO.,
DORMAN LONG & CO., CONSETT & S. CO., APPLEYBY IRON CO. (SIEMENS MANTON)
Has the Steel been tested as required by the Rules? YES

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.)

PLANS HAVE BEEN APPROVED FOR THIS VESSEL AT KOBE AND COPIES FORWARDED FROM THAT OFFICE TO LONDON.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower.	43-2-21	H.G.	91463	4-3-30
	2nd "	43-2-27	H.G.	91517	15-10-29
	3rd "	41-0-0	H.G.	91462	19-3-30

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 STH. DECK 2 SHADE DECKS

Official No. 155917 : Signal Letters Is bottom of Vessel coated with cement No. if not give particulars of composition BITUMASTIC

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	✓		Fore peak tank,	19.5	50
Double bottom, under Engines and Boilers,	✓		After peak tank,	✓	
Double bottom, if under Engines only,	✓		Deep tank, aft,	✓	
Double bottom, if under Boilers only,	✓		Deep tank, forward,	✓	
Double bottom, forward,	✓		Other tanks, if fitted, OIL TANKS AMIDSHIPS, REAR PAS	16.9	452
Total capacity of double bottom			(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.

Date 27th AUGUST, 1929.

Dates of Surveys held while building

1929 - OCT. 2, 9, 16, 22, 29, 30 - NOV. 5, 8, 12, 16, 20, 27 - DEC. 2, 5, 11, 30 - 1930 JAN. 3, 8, 10, 13, 17, 23, 29 - FEB. 6, 14, 18, 20, 25
MAR. 3, 7, 11, 12, 14, 17, 26, 31 - APR. 3, 12, 24, 29 - MAY. 8, 14, 23, 28 - JUNE 5, 13, 18, 24, 25 - JULY 5, 11, 15 - AUG. 5, 12, 18, 23 - SEPT. 1, 5, 12, 15, 24, 25 - OCT. 5, 11, 18, 21, 22, 26.

Total No. of Visits

69.