

STEEL STEAMER or MOTORSHIP.

Received at London Office

-4 MAR 1925

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 2nd March 1925 Port of Glasgow No. 44463
Survey held at Scotstoun Glasgow Date First Survey 19.8.24 Last Survey 27.2.1925
On the (State if Machinery fitted Aft and) Twin screw "TIEN KWANG"

State Type (Full Scantling, Complete Superstructure with or without Tonnage Opening) Restricted class
CLASS A "Carrying Petroleum on Yangtze River" State if with freeboard as condition of Class No.
TONNAGE under 457.59 Tonnage Deck...
Do. of space or spaces between Tonnage Dk. and Upper Dk.
Total
Gross Tonnage 730.93
Register Tonnage 284.79
REGISTERED DIMENSIONS. FEET.
Length 198.5
Breadth 32.9
Depth 8.9
Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) L 197.8
Breadth (greatest moulded) B 32.83
Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 10.50
1st Longitudinal Number (L x D) = 2077
2nd Numeral L x (B + D) = 8570
Framing Depth "d," at middle of length. See Sec. 3 (1d) 8.0
Proportions—Depth to Length—Uppermost continuous deck to top of keel 19.84
Do. Long Bridge to top of keel 10.99
Draught Moulded
State Type of Erections Bridge & Fide
Built at Scotstoun Glasgow
Launched 10/1/25 Yard No. 1497
Builders Yarrow & Co. Ltd.
Owners Asiatic Petroleum Co Ltd
Managers
(Where necessary to be entered in Reg. Book.)
Residence St Helens Court Great St Helens London
Port of Registry London
If surveyed while building, afloat, or in dry dock Yes.

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.
IES, Spacing amidships	24"		Bracket Floors, Frame	—	
" from 1/2 length to Collision bulkhead	24"		" " Reversed Frame	—	
" in peaks	24"		" " Vertical Struts	—	
FRAMING.			Centre Girder, depth and thickness amidships	30" x 10 lbs	
ame Amidships, Angle, [or]	5 2 1/2 6 lbs		" " top Angle	2 1/2 x 2 1/2 5 lbs	
" " Extends up to	Upper deck		" " bottom Angle	3 x 3 4 lbs	
versed Frame Amidships, Angle	web frames spaced about 5 spaces apart		Side Girders, No. each side and thickness	140 7 1/2 lbs	
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	1 1/2 lbs horizontal	
pth of Framing Girder	5"		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	—	
ames in Uppermost Continuous 'tween Decks, Angle, [or]	—		" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem	—	
" " Second 'tween Decks, Angle, [or]	—		" " Gussets, spacing and scantling abaft 1/4 len. from stem	—	
" " Third " " "	—		" " Gussets, spacing and scantling forward 1/4 len. from stem	—	
aming in Peaks, Angle, [or]	5 2 1/2 6 lbs		Tank Side Brackets, height above base line at toe of Frame and thickness	4 1/2" x 7 lbs	
iameter and Spacing of Rivets through Frame and Shell Plating amidships	5/8 8 1/2 7 1/2 8 dies		INNER BOTTOM PLATING.		
ate if Frame Joggled	No		Breadth and thickness of Middle Line Strake	4 1/2" x 7 lbs	
TING ARRANGEMENTS (Sec. 7), state system and particulars	Plan of Sec. 7 line and framing		Thickness of remainder in Holds	7 lbs x 10 lbs	
ENGTHENING OF BOTTOM FORWARD. 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?	As per app'd plans	
GLE BOTTOM. clear of 1/2 B. spaces.	13 1/2 x 7 1/2 lbs		BEAMS.		
oors, Depth and thickness at mid-line in Holds	—		Uppermost Continuous Deck, amidships in Wells, Angle, [or]	3 x 2 x 4 lbs with deep beams about 5 spaces apart	
Height of Brackets at side above base line at toe of frame	—		" " in way of Bridge, Angle, [or]	—	
iddle Line Keelson, on Floors, Angle, [or]	2 1/2 x 2 1/2 5 lbs		Spacing	24"	
" " Through Plate or Intercoastal Plate	17" x 10 lbs		Second Deck, amidships, Angle, [or]	—	
" " Foundation Plate on Floors	—		Spacing	—	
" " Flat Plate Keel Angle	3 x 3 x 7 lbs		Third Deck, amidships, Angle, [or]	—	
ide Keelsons, No. each side	Two		Spacing	—	
" " thickness of Intercoastal Plate	4 1/2 lbs		Fourth Deck, amidships, Angle, [or]	—	
" " Angles	2 1/2 x 2 1/2 5 lbs		Spacing	—	
UBLE BOTTOM. (E & B. space only).			Poop Deck, Angle, [or]	—	
olid Floors, thickness and spacing	24" 7 1/2 lbs 10 lbs under Sump & B.S.		Spacing	—	
" " Are Frame and Reversed Frame joggled?	No		Bridge Deck, Angle, [or]	3 x 2 x 3 1/2 lbs with deep beams about 5 spaces apart	
Bracket Floors, breadth and thickness at middle line	—		Spacing	24"	
" " breadth and thickness at margin plate	—		Forecastle Deck, Angle, [or]	3 x 2 x 4 lbs	
			Spacing	24"	

PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows..... <i>3</i>		
" " " " " Size and Spacing..... <i>As per plan</i>		
" " " " " " "		
" " " " " " "		
" " " " " " "		
" " " " " " "		
Centre Line Bulkheads		
Stiffeners and Spacing.....		
Plating, thickness of		
STRINGERS AND DECKS.		
Uppermost Continuous Deck.		
Stringer Plate, breadth and thickness in Wells.....		
" " " " " " " in way of Bridge.....		
" Angle in Wells		
Thickness of Plating abreast Deck openings) in way of Wells		
Thickness of Plating abreast Deck openings) in way of Bridge		
Thickness of Plating within line of openings... ..		
If Sheathed, material and thickness		
Second Deck.		
Stringer Plate, breadth and thickness in Wells....		
Stringer Plate, breadth and thickness in way of Wells.....		
Thickness of Plating abreast Deck openings) in way of Bridge		
Thickness of Plating within line of openings... ..		
If Sheathed, material and thickness		
Third Deck.		
Stringer Plate, breadth and thickness.....		
If Plated, state thickness.....		
Fourth Deck.		
Stringer Plate, breadth and thickness.....		
If Plated, state thickness		
Poop Deck.		
Stringer Plate, breadth and thickness		
Plating, Sheathing, material and thickness		
Bridge Deck.		
Stringer Plate, breadth and thickness.....		
Plating, Sheathing, material and thickness		
Forecastle Deck.		
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.			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	53	10 lb	7 1/2 lb	7 1/2 lb	✓	Double	1/2	4-4 1/2	✓	Double	1 1/2	4-4 1/2	Strapped
„ DBLG. (if any)	-	-	-	-									
BOTTOM PLATING, No. of Strakes 3..		10 lb	7 1/2 lb	7 1/2 lb	✓	Double	1/2	4-4 1/2	✓	Double	1	4-4 1/2	Lapped
BILGE PLATING, No. of Strakes 1..		10 lb	7 1/2 lb	7 1/2 lb	✓	Double	1/2	4-4 1/2	✓	Double	1/2	4-4 1/2	"
SIDE PLATING, No. of Strakes						In way of oil rivets are spaced 3 1/2 diameters.							
UPPER DECK, Sheer-strake in Wells.....	48"	12 1/2 lb	7 1/2 lb	7 1/2 lb	✓	S. R. D. R. in way of Bridge & Flce	5/8	4-4 1/2	✓	Double	5/8	4-4 1/2	Double Strapped
UPPER DECK, Sheer-strake in Bridge ...		Doubled at fore & aft Bridge 20 per aft's plan ✓											
STRAKE BELOW Sheer-strake in Wells.....		10 lb	7 1/2 lb	7 1/2 lb	✓	Double	5/8	4-4 1/2	✓	Double	1/2	4-4 1/2	Lapped
STRAKE BELOW Sheer-strake in Bridge ...						W.M.	5/4 1/2	37-4-24					
						C.B.	5/8 1/8	28-4-24					
						M.R.	3/4 1/8	16-4-24					
POOP SIDE PLATING	-	-	-	-									
BRIDGE SIDE PLATING ..		10 lb	-	7 1/2 lb	✓	Single	1/16	4-4 1/2	✓	Double and Single	1/16	4-4 1/2	Lapped
		5 1/2 lb	-	5 1/2 lb	✓								
FORE'TLE SIDE PLATING		-	6 1/2 lb		✓	Single	1/16	4-4 1/2	✓	Double	1/16	4-4 1/2	Lapped

WATERTIGHT BULKHEADS.

07 and
Total No. of **W.T. BULKHEADS** in Vessel—
Extending to Upper Deck (Sec. 3 c)
" Deck next below
As per Rule

FORGINGS and CASTINGS.

0119	Keel or Stem forgings.	Steel	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	-			
STEM <i>Sub. trans. Riveted</i>	<i>Forging</i>	$4 \times \frac{7}{8}$	1 -	
STERN FRAME { Propeller Post	-			
{ Rudder "	<i>not recording</i>			
RUDDER—A x D	<i>73</i>			
<i>3. Rudder fitted</i>	<i>15 knots</i>			
Speed of Vessel		$8\frac{1}{4}$ " at shell	<i>18</i>	<i>18</i>
RUDDER mainpiece at head ...	<i>Forging</i>	<i>5</i>	<i>Robert Kerr</i>	<i>✓</i>
" " heel ...		$3\frac{1}{2}$	<i>✓ Saw did.</i>	
" " how constructed	<i>Balanced</i>	<i>Arms shrunk & keyed</i>		<i>✓</i>
" double or single plate	<i>Single plate</i>	$\frac{11}{16}$ "		<i>✓</i>
" coupling, vertical or				
" horizontal				

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween deck		5	-	12	-	-
"	" Second "	5	-	12	-	-
"	" Third "	5	-	12	-	-
OT	Holds	7 1/2	per approved plans.			
W.T.	bet G+B spaces	5 1/2	5 x 2 x 4 1/2	20" 2 1/2"	one 9" x 7 1/2"	2 1/2" x 2"
COLLISION	(in Hold)	5 1/2	3 x 2 x 4 1/2	25" 2 1/2"	2 1/2" x 4 1/2" on floor	2 1/2" x 2"
		5 1/2	3 x 2 x 4 1/2	24	W.T. flat.	
AFTER PEAK	"	4 1/2 x 5 1/2	3 1/2 x 2 x 5 1/2	20"		

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Steel Co of Scotland Ltd. David Colville Sons Ltd.* *open hearth.*

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

EQUIPMENT NO. <i>on board</i>										LETTER	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.	Cwts.				
28401	1st Bower ...	14	2	4	<i>Stockless</i>			18	14	1	14	—	<i>Byron Imp. Stockless</i>	<i>not stated</i>	<i>Sund 28/8/24 W.H. Lister</i>	
28402	2nd " ...	14	2	0	"			18	12	2	0	—	" " "	" "	" 28/8/24 "	
28419	2nd STREAM	4	0	0	"			6	4	2	0	—	" " "	" "	" 2/9/24 "	
	Collective weight.															
28001	KEDGE Stream	7	2	1	21	0	3	0	5	0	0	0	—	<i>Common Fag 10-1.</i>	" "	" 28/3/24 <i>J.H. Butler</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.	Statu- tory.	Break- ing.	Supplied.	Per Rules.	Length in fms.	Length in ins.	Length.					Cir.	Length.	Cir.	Length.	Cir.	Tons.
36940	180	1"	18	27	92-2-4		180	1"	Steel	not stated	Ridley Heath 29/10/24 K.H. Lister	IRON	240	2 3/4	15 1/2	-	-	-	-
Iron Stream Chain or Steel Wire	45	3"	18										120	6"	4 1/2	-	-	-	-

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.) The vessel is a sister to T.S.S. "SHU KWANG" Report No 43967.

- 1 Forging report and the following. 2 plans are enclosed for reference.
- Rudder Forging.
- Midship Section (as built)
- Bolted down to openings at ends of Sections.

The approved plans of the Sister vessel are also returned.

Particulars of Drop Test of Cast Steel Anchors, viz. :— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	9-2-22	W.M	5442	30-4-24
	2nd "	10-0-16	C.B	5818	28-7-24
	3rd "	2-1-20	M.R.	391	16-4-24

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop — ft., R.Q.D. — ft., Bridge 134 ft., Forecastle 22 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) one deck steel.

Official No. 148559. ; Signal Letters Is bottom of Vessel coated with cement See below. if not give particulars of composition 2 coats red oxide clean of oil tanks, B.B. and Peak tanks. Cement washed

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length.	Water Capacity.	Where Fitted.	*Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,			Fore peak tank,	18	10
Double bottom, under Engines and Boilers	14'	13	After peak tank,		
Double bottom, if under Engines only,	16'		Deep tank, aft,		
Double bottom, if under Boilers only,	34'		Deep tank, forward,		
Double bottom, forward,	(12)	13	Other tanks, if fitted,		
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.					

R.F. Tank
DRY TANK
under Engrs.

DRY Tank
under Boilers

Ans 128 ft

Total Length of D.B. including
dry tanks } = *64 ft.*

Order for Special Survey No. No official Request. Date See London 29/9/24

Dates of Surveys held while building { 1924. Aug. 19. Sept 8. 18. 25 Oct 10. 20 Nov 6. 12. 17. 21. 26 Dec 1. 3. 8. 11. 16. 18. 19. 23. 27. 1925. Jan 9. 19. 27. 30. Feb 2. 17. 18. 19. 27.

Lloyd's Register Foundation

Total No. of Visits 30