

STEEL STEAMER or MOTORSHIP.

Received at London Office 6-1940

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 *3rd August 1940* Port of *Sunderland* No. *32937*
Survey held at *Sunderland* Date First Survey *12 Jan. '39* Last Survey *29 July 1940*On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) *Single Screw* **"TOWER GRANGE"** Engines *amidships.*State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *Complete Superstructure with tonnage opening aft* State Type of Erections *C.S.S.*TONNAGE under 4684.57 CLASS *X100A1* State if with freeboard as condition of Class *yes.* Built at *Sunderland.*

Do. of space or spaces between Tonnage Dk. and Upper Dk. *540.98* Length from fore part of stem to after part of stern most on summer L.W.L. See Sec. 3 (1a) *L 49.58* Launched *21st June 1940* Yard No. *660*

Net Tonnage *5225.55* Breadth (greatest moulded) *B 56.21* Builders *Wm Doxford & Sons Ltd.*

Gross Tonnage *3072.12* Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 38.00* Owners *The Tower Steamship Co. Ltd.*

Register Tonnage *3072.12* 1st Longitudinal Number (L x D) *= 15524* Managers *The Counties Ship Management Co. Ltd.*
(Where necessary to be entered in Reg. Book.)

2nd Numeral L x (B + D) *= 39109* Residence *1-4, Bury St. London.*

REGISTERED DIMENSIONS. FEET. Framing Depth "d," at middle of length. See Sec. 3 (1d) *25.35* Port of Registry *London*

Length *427.60* Proportions—Depth to Length—Uppermost continuous deck to top of keel *11.04* If surveyed while building, afloat, or in dry dock

Breadth *56.50* Do. Long Bridge to top of keel *25-8 3/4* whilst building.

Depth *26.50* Draught Moulded *25-8 3/4*

FRAMES, DOUBLE BOTTOM AND BEAMS. N.B.S.

	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	<i>31 1/2</i> ✓		Bracket Floors, Frame	<i>6 3 1/2 .40</i> ✓	
" " from 1/3 length amidships to Collision bulkhead	<i>27</i> ✓		" " Reversed Frame	<i>6 3 .34</i> ✓	
" " in peaks	<i>24</i> ✓		" " Vertical Struts	<i>8 x 3 1/2 x 3 1/2 x .42</i> ✓	
DE FRAMING.			Centre Girder, depth and thickness amidships	<i>43 3/4 x .54</i> ✓	
Frame Amidships, Angle <i>E</i> or <i>C</i>	<i>13 1/2 4 .49</i> ✓		" " top Angles	<i>3 1/2 3 1/2 .48</i> ✓	
" " Extends up to <i>2nd Dk. + S.D. @ HE. Beams</i>			" " bottom Angles	<i>5 5 .50</i> ✓	
" " <i>+ every 3rd frame at engine space</i>			Side Girders, No. each side and thickness	<i>One .38</i> ✓	
Reversed Frame Amidships, Angle	✓		Margin Plate depth (excl. of flange) and thickness	<i>40 3/4 x .54</i> ✓	
" " Extends up to	✓		" " Vertical Angle to Tank side	<i>5 5 .45</i> ✓	
Depth of Framing Girder	✓		" " Bracket abaft 1/4 len. from stem	<i>5 5 .45</i> ✓	
Frames in Uppermost Continuous 'tween Decks, Angle <i>E</i> or <i>C</i>	<i>6 3 1/2 .35</i> ✓		" " Vertical Angle to Tank side	<i>5 5 .45</i> ✓	
" " Second 'tween Decks, Angle <i>E</i> or <i>C</i>	✓		" " Bracket from forward 1/4 len. from stem to Panting Area	<i>42 Continuous</i> ✓	
" " Third " " " "	✓		" " Gussets, spacing and scantling abaft 1/4 len. from stem	<i>42</i> ✓	
" " from 1 len. for'd. to 15% len. from Stem	<i>13 1/2 4 .57</i> ✓		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area	<i>70 x .46</i> ✓	
" " in Peaks, Angle <i>E</i> or <i>C</i>	<i>8 3 1/2 .38</i> ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>78 x .50</i> ✓	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<i>7/8 @ 5 1/4</i> ✓		INNER BOTTOM PLATING.		
State if Frame Joggled	<i>yes</i> ✓		Breadth and thickness of Middle Line Strake	<i>.44</i> ✓	<i>+ .08 under Hatchways</i>
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	<i>yes</i> ✓		Thickness of remainder in Holds	<i>yes</i> ✓	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	<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?		
DOUBLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships	<i>8 3 1/2 .34</i> ✓	
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, <i>E</i> or <i>C</i>	✓	
Middle Line Keelson, on Floors, Angles, <i>E</i> or <i>C</i>			" " Spacing	<i>every fr.</i> ✓	
" " Through Plate or Intercostal Plate			Second Deck, amidships, Angle, <i>E</i> or <i>C</i>	<i>9 3 1/2 .38</i> ✓	
" " Foundation Plate on Floors			" " Spacing	<i>every fr.</i> ✓	
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, <i>E</i> or <i>C</i>	✓	
Side Keelsons, No. each side			" " Spacing	✓	
" " thickness of Intercostal Plate			Fourth Deck, amidships, Angle, <i>E</i> or <i>C</i>	✓	
" " Angles			" " Spacing	✓	
DOUBLE BOTTOM.			Poop Deck, Angle, <i>E</i> or <i>C</i>	✓	
Solid Floors, thickness and spacing	<i>.42 @ 9 1/2</i> ✓		" " Spacing	✓	
" " Are Frame and Reversed Frame joggled?	<i>yes</i> ✓		Bridge Deck, Angle, <i>E</i> or <i>C</i>	✓	
Bracket Floors, breadth and thickness at middle line	<i>33 x .42</i> ✓		" " Spacing	✓	
" " breadth and thickness at margin plate	<i>33 x .42</i> ✓		Forecastle Deck, Angle, <i>E</i> or <i>C</i>	✓	
			" " 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.....			✓		Stringer Plate, breadth and thickness in way of Bridge	✓			
" in 'tween Decks, Size and Spacing.....					Thickness of Plating abreast Deck openings } in way of Wells	375	✓		
" " " " "					Thickness of Plating abreast Deck openings } in way of Bridge	✓			
" in Holds " "					Thickness of Plating within line of openings...	34	✓		
" " " " "					If Sheathed, material and thickness	✓			
Centre Line Bulkhead.	L	3½	3	.32	<i>every frame</i> ✓				
Stiffeners and Spacing.....	L	9	3½	.44	✓ <i>do</i> ✓				
Plating, thickness of26	T. D ³ ✓					
			.30	Holds ✓					
STRINGERS AND DECKS.					Third Deck.				
Uppermost Continuous Deck.					Stringer Plate, breadth and thickness.....	✓			
Stringer Plate, breadth and thickness in Wells		70	x	.61	✓				
" " " " in way of Bridge			✓		If Plated, state thickness	✓			
" Angle in Wells		6	6	.61	✓				
Thickness of Plating abreast Deck openings } in way of Wells63	7	.57	+10% ✓				
Thickness of Plating abreast Deck openings } in way of Bridge			✓		Poop Deck.				
Thickness of Plating within line of openings...			✓		Stringer Plate, breadth and thickness	✓			
If Sheathed, material and thickness			✓		Plating, Sheathing, material and thickness ...	✓			
Second Deck.					Bridge Deck.				
Stringer Plate, breadth and thickness in Wells...		70	x	.40	✓				
					Stringer Plate, breadth and thickness.....	✓			
					Plating, Sheathing, material and thickness ...	✓			
					Forecastle Deck.				
					Stringer Plate, breadth and thickness.....	✓			
					Plating, Sheathing, material and thickness ...	✓			

SHELL PLATING.

[illegible]

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) <i>One.</i> ✓								
" Deck next below <i>Six</i> ✓								
As per Rule <i>Seven.</i> ✓								
				STIFFENERS.				
Plating Thickness.				VERTICAL.		HORIZONTAL.		
				Scantlings.	Spacing.	Scantlings.	Spacing.	
MIDSHIP BULKH'D, Upper tween decks —								
"	"	Second	"	—				
"	"	Third	"	—				
"	"	Holds	"	<i>39-26 12x3½-3½x37 [30</i> ✓				
COLLISION " (in Hold) <i>54-32 11x3½x56 24 1 Semi box beam</i> ✓								
AFTER PEAK " <i>41-36 8x3x48 2½ 1 do do</i> ✓								
				KEEL, Bar				
				STEM		<i>Rolled S.M. 9¾x25/8 plates saplan</i>		
				STERN FRAME		Propeller Post <i>Casting 14x13. Schömmers</i>		
						Rudder " <i>12x8</i> ✓		
				Speed of Vessel		<i>11½</i> ✓		
				RUDDER—Type		<i>Ordinary</i> ✓		
				" A x D		<i>454</i>		
				" Diam. of head		<i>Forging 10½ Foster</i> ✓		
				" Mainpiece at top pintle		<i>10½</i> ✓		
				" " heel		<i>7¾</i> ✓		
				" how constructed		<i>Built</i> ✓		
				" double or single plate coupling, vertical or horizontal		<i>Single Vertical</i> ✓		

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *S.M. Open hearth*
South Durham; Skinningrove; Bonsett; Colvilles; Cargo Fleet.
Boorman Long; Appleby Frodingham
 Has the Steel been tested as required by the Rules? *yes.*

Has the Steel been tested as required by the Rules?

Lloyd's Register
Foundation

EQUIPMENT No 40,000 ✓										LETTER af ✓	ANCHORS.				
Number of Certificate.	Anchor.	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.			
39609	1st Bower ...	68	0	14	Stockless			52	15	2	14	68 ✓	Byers Improved	W.L. Byers	Sld. 26-3-40 Norman
39610	2nd " ...	68	0	3	do			52	15	2	14	68 ✓	do do	"	" " " "
-	3rd " ...	-	-	-	-			-				58½ ✓			
lie	Collective weight.	136	0	17								194½ ✓			
53250	Stream	19	2	7	4 3 24			20	8	1	21	19 ✓	Ord. Iron Stock	-	Crad. H. 3-5-40 Paul

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 and size per Table 53.	Length and size per Table 53.	Length and size per Table 53.	Length and size per Table 53.	Length and size per Table 53.
	Length. Diam.	Stations. Break-ing.	Supplied.	Per Rule.	Length. Diam.							Length. Cir.	Tons.	Length. Cir.	Length. Cir.	Length. Cir.	Length. Cir.	Length. Cir.	Length. Cir.
112550	225½ 2	100-8 141-1	491-3-21	720¾	270. 25½	Slud link Tayco	Taylor	Atherton 8-7-40	Ref.		TOWLINE	120 4¾	64.6	120 4¾	✓				
											HAWSERS & WARPS	2@90 2¾	15.2	2@90 2¾	✓				
												2@90 2½	13.2	2@90 2½	✓				
												4@90 7"	Manilla	✓					
	90. 5	✓	52.8			90 5. 5w. British Ropes Ltd.													

Steering Gear, Type (Power ~~or hand~~) *Donkin 9 x 8½* ✓ Alternative Means of Steering *Block tackle + after winch* ✓
Hand :: Frictional Clutch worm life. ✓
Steering Chains (Size and Test) *Windlass Emerson Walker 10x12½ Boats 2@23ft + 2@16ft* ✓
Ceiling in Holds, thickness and material *2½" wp. over beams only* ✓ Cargo Battens, thickness, material and spacing *6x2 wp. @ 9" spacing.* ✓
Cargo Hatchways. (Upper Deck) *Reith patent* ✓ Thickness of Hatches *3" op. 2nd deck ¼" steel shell + sh.* ✓
Size of Hatchways No. 1 (Fwd.) *31-6 x 22* No. 2 *31-6 x 22* No. 3 *31-6 x 22* No. 4 *31-6 x 22* No. 5 *31-6 x 22* No. 6 ✓
Number of Shifting Beams *Five to each hatch.* ✓
and for Fore and Afters. ✓

Builder's Signature *W. J. Doxford & Sons, Limited, Director.*

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 *Motor Ship.*
(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 (where required to be inserted in the Notation).
Fuel oil for oil engines is carried in Nos 2, 3, 5, 6 + 7 double bottom tanks.
The requirements of Section 20, in so far as applicable, have been complied with.
The vessel has been built in accordance with the approved plans, the Secretary's letter and the Society's Rules. The materials and workmanship are good.
The double bottom tanks, cofferdams, deep tank and peak tanks have been satisfactorily tested as required by the Rules.
The upper + 2nd Decks, watertight bulkheads, tunnel & tunnel door have been hose tested.
The steering gear, Hand gear + auxiliary gear, windlass, pumps, and watertight door have been tried under working conditions.
The vessel is fitted with directional wireless.
The equipment of Anchor + chain cable have been reduced as per the Secretary's letter of the 22nd February 1940 and 29th January 1940 respectively.

The amount of Entry Fee £ *9 : 0 : 0* Fees applied for, *2 AUG 1940*
Fuel and 16 0 0
Special Survey Fee.... £ *330 : 13 : 0* Received by me, *14th August 1940*
Travelling Expenses, if any £ : ✓ :
State whether the Vessel has been built under Special Survey *yes.* I am of opinion the Vessel should be Classed *100A1.*
Certificate to be sent to *Sunderland* Date of issue *20/8/40* Signature *C. A. Millar*
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUE 13 AUG 1940*
Character assigned *+100A1*
With freeboard
Lloyd's Arch. Lloyd's Arch.
note for S.R.L. White 17th
25/8-1204
at 20/8

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.)

"Putney Hill" Sea Report no 32910.

PARTICULARS OF ELECTRIC WELDING (if employed) Fleetweld + Quasi-arc. overhead electrodes.

Parts Welded:- 2nd Deck Stringer plates to shell plating
Deep tank & peak tank girders. Rudder plates
Bhd. Stiffener brackets to tank top. Hatch web mountings.
Ventilator Coamings to deck. Tank-side gusset plates.

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

Lloyds A + C.P. Fitted for Oil Fuel F.P. above 150° F. D.F. + bracing Stern

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

1st Bower

2nd "

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

Official No. Signal Letters Extreme Breadth over Belting Over-all Length 442'-11 1/4"

No. and Material of Decks 1 2nd (Stl) and Shelter Deck

Parts of Bottom of Vessel coated with cement or approved composition No 1, 4 & 7 double bottom tanks + cofferdam

Particulars of composition (if fitted) and of approval ✓

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.)

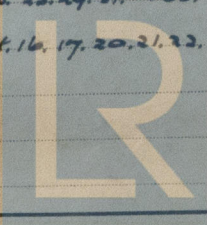
Where Fitted.	Length.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	123.4	355	Fore peak tank,	24	158 ✓
Double bottom, under Engines and Boilers, Cofferdam	5.25	—	After peak tank,	20	166 ✓
Double bottom, if under Engines only,	34.1	132	Deep tank, aft,	—	—
Double bottom, if under Boilers only,	—	—	Deep tank, forward, Amkships.	28.8	1205 ✓
Double bottom, forward,	193.5	692.	Other tanks, if fitted,	—	—
Total length (if continuous) and Capacity	356 - ✓	1179 ✓	(If necessary, furnish further information by sketch.)		

Order for Special Survey No 5916

Date 16.5.39

Dates of Surveys held while building

1939. Dec. 12. 27. 1940. Jan. 3. 14. 29. 31. Feb. 7. 13. 16. 20. 21. 24. 28. March. 4. 8. 13. 18. 20. 26. April. 17. 18. 23. 25. 29. May. 1. 3. 6. 7. 9. 13. 14. 16. 17. 20. 21. 23. June. 4. 11. 14. 21. 24. 25. 27. July. 1. 4. 10. 16. 22. 23. 24. 29.



Lloyd's Register Foundation
Total No. of Visits 55