

STEEL STEAMER ~~OF~~ MOTORSHIP.

21 NOV 1929

Received at London Office

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 *20th November 1929*Port of *Sunderland*No. *30,200*Survey held at *Sunderland*Date First Survey *1st May 1929*, Last Survey *12th November 1929*On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) *Single Screw Steamer "TORCHBEARER" (Machinery aft).*State Type (Full Scantling, Complete Superstructure, with or without Tonnage Openings) *Full Scantling*State Type of Erections *Raised Quarter Deck, Shot Bridge & Gun Forecastle.*TONNAGE under Tonnage Deck... *969.86*CLASS *100 A1.*State if (with freeboard) as condition of Class *no*Built at *Sunderland*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) *224.7*Launched *17.10.29* Yard No. *182*Total *969.86*Breadth (greatest moulded) *B 35.75*Builders *John Brown & Sons Ltd.*Gross Tonnage *1267.44*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 17.29*Owners *Gas Light & Coke Co.*Register Tonnage *683.56*1st Longitudinal Number (L x D) = *3885*Managers *Stephenson Clarke & Associated Companies Ltd.*

## REGISTERED DIMENSIONS. FEET.

Length *225.00*2nd Numeral L x (B + D) = *11918*Residence *4 St. Dunstons Alley, London.*Breadth *36.00*Framing Depth "d," at middle of length. See Sec. 3 (1d) *12.99*Port of Registry *London*Depth *15.30*Proportions—Depth to Length—Uppermost continuous deck to top of keel *10.84*

If surveyed while building, afloat, or in dry dock

Draught Moulded *15.7 1/4**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.
<b>FRAMES, Spacing amidships</b> .....	<i>27</i>		<b>Bracket Floors, Frame</b> .....	<i>✓</i>	
" " from $\frac{3}{4}$ length to Collision bulkhead .....	<i>27</i>		" " Reversed Frame .....	<i>✓</i>	
" " in peaks .....	<i>23</i>		" " Vertical Struts .....	<i>✓</i>	
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b> <i>32 1/2</i>	<i>40</i>	
Frame Amidships, Angle, $\angle$ = <i>[R.O. DECK. 7 1/2 3 1/4 38]</i>			" " top Angle .....	<i>3 3 38</i>	
" " Extends up to .....	<i>Upper Raised Quarter Deck</i>		" " bottom Angle .....	<i>3 1/2 3 1/2 40</i>	
<b>Reversed Frame Amidships, Angle</b> .....	<i>✓</i>		<b>Side Girders, No. each side and thickness</b> .....	<i>ONE 30</i>	
" " Extends up to .....	<i>✓</i>		<b>Margin Plate depth (excl. of flange) and thickness</b> .....	<i>25 38</i>	
<b>Depth of Framing Girder</b> .....	<i>6 1/2 7 1/2</i>		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem .....	<i>3 3 32</i>	
<b>Frames in Uppermost Continuous 'tween Decks, Angle, <math>\angle</math> or <math>\square</math></b> .....	<i>✓</i>		" " Vertical Angle to Tank side Bracket forward $\frac{1}{4}$ len. from stem .....	<i>3 3 32 (Double)</i>	
" " <b>Second 'tween Decks, Angle, <math>\angle</math> or <math>\square</math></b> .....	<i>✓</i>		" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem .....	<i>✓</i>	
" " <b>Third " " " "</b> .....	<i>✓</i>		" " Gussets, spacing and scantling forward $\frac{1}{4}$ len. from stem .....	<i>✓</i>	
<b>Framing in Peaks, Angle or <math>\angle</math></b> .....	<i>6 3 42</i>		<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b> .....	<i>47 36</i>	
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amidships</b> .....	<i>3/4 5 1/4 4 1/8</i>		<b>INNER BOTTOM PLATING.</b>		
<b>State if Frame Joggled</b> .....	<i>NO</i>		Breadth and thickness of Middle Line Strake .....	<i>42 1/2 50</i>	
<b>PANTING ARRANGEMENTS (Sec. 7), state system and particulars</b> .....	<i>Deck framing &amp; side stringers as approved.</i>		Thickness of remainder in Holds .....	<i>50</i>	
<b>STRENGTHENING OF BOTTOM FORWARD. State Particulars</b> .....	<i>Bottom framing double bottom plates, bottom strakes, amidships thickness, additional half length in forehold.</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>	
<b>SINGLE BOTTOM.</b>			<b>BEAMS.</b>		
<b>Floors, Depth and thickness at mid-line in Holds</b> .....	<i>24 50</i>		<b>Uppermost Continuous Deck, amidships</b> <i>FORWARD</i>	<i>6 1/2 3 34</i>	
Height of Brackets at side above base line at toe of frame .....	<i>Single floor</i>		" " in Wells, <i>[Double]</i> .....	<i>5 1/2 3 38 5 3/4 38</i>	
<b>Middle Line Keelson, on Floors, Angles, <math>\angle</math> or <math>\square</math> (Double)</b> .....	<i>4 1/2 3 1/2 45</i>		" " in way of Bridge, <i>[Double]</i> .....	<i>6 1/2 3 34</i>	
" " Through Plate <i>[Double]</i> .....	<i>50</i>		Spacing .....	<i>27</i>	
" " Foundation Plate on Floors .....	<i>12 50</i>		<b>Raised Quarter Deck (Half Beams at Hatch Sides)</b> <i>Second Deck</i> .....	<i>6 1/2 3 44</i>	
" " Flat Plate Keel Angles <i>(Double)</i> .....	<i>3 1/2 3 1/2 48</i>		Spacing .....	<i>27</i>	
<b>Side Keelsons, No. each side</b> .....	<i>one</i>		<b>Third Deck, amidships, Angle, <math>\angle</math> or <math>\square</math></b> .....	<i>✓</i>	
" " thickness of Intercostal Plate <i>Top</i> .....	<i>5 1/2 3 1/2 43</i>		Spacing .....	<i>✓</i>	
" " Angles <i>Bottom</i> .....	<i>3 3 46</i>		<b>Fourth Deck, amidships, Angle, <math>\angle</math> or <math>\square</math></b> .....	<i>✓</i>	
<b>DOUBLE BOTTOM.</b>			Spacing .....	<i>✓</i>	
<b>Solid Floors, thickness and spacing</b> .....	<i>32 27</i>		<b>Poop Deck, Angle, <math>\angle</math> or <math>\square</math></b> .....	<i>✓</i>	
" " Are Frame and Reversed Frame joggled? .....	<i>NO</i>		Spacing .....	<i>✓</i>	
<b>Bracket Floors, breadth and thickness at middle line</b> .....	<i>✓</i>		<b>Bridge Deck, Angle, <math>\angle</math> or <math>\square</math></b> .....	<i>4 1/2 3 40</i>	
" " breadth and thickness at margin plate .....	<i>✓</i>		Spacing .....	<i>27 3 34</i>	
			<b>Forecastle Deck, Angle, <math>\angle</math> or <math>\square</math></b> .....	<i>4 1/2 3 34</i>	
			Spacing .....	<i>23</i>	



## 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.
<b>PILLARS, No. of Rows.....</b>	<i>one in Bridge</i>		Stringer Plate, breadth and thickness in way of Bridge .....	✓	
„ in 'tween Decks, Size and Spacing.....	<i>2½ 54</i>		Thickness of Plating abreast Deck openings in way of Wells .....	<i>32</i>	
„ „ „ „ „			Thickness of Plating abreast Deck openings in way of Bridge .....	✓	
„ in Holds „ „	<i>Large brackets in Line</i>		Thickness of Plating within line of openings..	<i>30</i>	
„ „ „ „ „			If Sheathed, material and thickness .....	<i>2½ P.P. in Way of accom.</i>	
<b>Centre Line Bulkhead.</b>			<b>Third Deck.</b>		
Stiffeners and Spacing.....	✓		Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of .....	✓		If Plated, state thickness.....	✓	
<b>STRINGERS AND DECKS.</b>			<b>Fourth Deck.</b>		
<b>Uppermost Continuous Deck.</b>			Stringer Plate, breadth and thickness.....	✓	
Stringer Plate, breadth and thickness in Wells	<i>7½ 56 48</i>		If Plated, state thickness .....	✓	
„ „ „ „ in way of Bridge	<i>7½ 56</i>		<b>Poop Deck.</b>		
„ Angle in Wells .....	<i>5x5x54 48</i>		Stringer Plate, breadth and thickness .....	✓	
Thickness of Plating abreast Deck openings in way of Wells .....	<i>Stringer only</i>		Plating, Sheathing, material and thickness ...	✓	
Thickness of Plating abreast Deck openings in way of Bridge .....	✓		<b>Bridge Deck.</b>		
Thickness of Plating within line of openings..	<i>34 - 30</i>		Stringer Plate, breadth and thickness.....	<i>33</i> ✓ <i>30</i>	
If Sheathed, material and thickness .....	<i>2½ P.P. in Way of accom.</i>		Plating, Sheathing, material and thickness ...	<i>26</i> ✓ <i>25 P.P.</i>	
<b>RAISED QUARTER</b>			<b>Forecastle Deck.</b>		
<b>Second Deck.</b>			Stringer Plate, breadth and thickness.....	<i>22</i> ✓ <i>30</i>	
Stringer Plate, breadth and thickness in Wells.	<i>168 42 TO 29 34</i>		Plating, Sheathing, material and thickness ...	<i>30</i> ✓ <i>3 P.P. under Hull plates</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 .....	42	51	47	47		Double	$\frac{7}{8}$	$3\frac{3}{8}$	3R full L	$\frac{7}{8}$	$3\frac{1}{8}$	Lapped	
„ DBLG. (if any)	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
BOTTOM PLATING, No. of Strakes THREAS.}	63 63	45	37	41		Double	$\frac{3}{4}$	3	3R full L	$\frac{3}{4}$	$2\frac{5}{8}$	Lapped	
BILGE PLATING, No. of Strakes .....	52 $\frac{1}{2}$ 48	45	37	41		—	—	—	3R to 2R	—	—	—	
SIDE PLATING, No. of Strakes .....	48 BULK 80	45	37	41		—	—	—	—	—	—	—	
UPPER DECK, Sheer- strake in Wells .....	46	54	37	✓		—	$\frac{7}{8}$	$3\frac{3}{8}$	4R to 3R	$\frac{7}{8}$	$3\frac{1}{2}$ to $3\frac{1}{2}$	—	
UPPER DECK, Sheer- strake in Bridge ...	46 BULK 80	54	37	37		—	$\frac{7}{8}$ to $\frac{3}{4}$	$3\frac{3}{8}$ to $3\frac{1}{2}$	3R to 2R	$\frac{7}{8}$ to $\frac{3}{4}$	$3\frac{1}{2}$ to $2\frac{5}{8}$	—	
STRAKE BELOW SHEER- strake in Wells .....	48 $\frac{1}{2}$ R.O.D	45	✓	37		—	$\frac{3}{4}$	3	—	$\frac{3}{4}$	$2\frac{5}{8}$	—	
STRAKE BELOW SHEER- strake in Bridge ...	46 BULK 60	47	✓	37		—	—	—	3R to 2R	—	—	—	
POOR SIDE PLATING .....	42 $\frac{1}{2}$	48	✓	37		✓	✓	✓	3R to 2R	—	—	—	
BRIDGE SIDE PLATING ...	✓	30	✓	✓		Single	$\frac{3}{4}$	3	2 Rows	—	—	—	
FORECASTLE SIDE PLATING	✓	✓	30	✓		Double	—	—	—	—	—	—	

## WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c) TWO  
 — " — FORECASTLE OK. ONE  
 " R.O. Deck next below TWO

As per Rule *FOUR.*

			Plating Thickness.	STIFFENERS.			
				VERTICAL.		HORIZONTAL.	
				Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, <del>Upper</del> tween decks							
"	"	Second	"				
"	"	Third	"				
"	"	Holds (DECK TANK)	34-30	9-3-48	24		
COLLISION			"	(in Hold)	43-32-30	7-3-42	24
AFTER PEAK			"	"	37-30	5-3-34	24

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
<b>KEEL, Bar</b> .....				
<b>STEM</b> .....	<i> Rolled Steel "</i> <i> Bar</i>	<i> 7 x 1 <math>\frac{3}{4}</math> "</i>	<i> H. Rendmore &amp; Co.</i>	
<b>STERN FRAME</b> {	<i> Forging</i>	<i> 6 <math>\frac{3}{4}</math> x 4 <math>\frac{1}{2}</math> "</i>	<i> The Sunderland</i>	
{ Propeller Post .....			<i> Forge</i>	
{ Rudder .....	<i> — " —</i>	<i> 6 x 4 <math>\frac{1}{2}</math> "</i>	<i> 4</i>	
<b>RUDDER—A x D</b> .....		<i> 153 x 45</i>		
<b>Speed of Vessel</b> .....	<i> Under 10 knots.</i>		<i> Engineering</i>	
<b>RUDDER</b> mainpiece at head .....	<i> Forging</i>	<i> 6 "</i>	<i> Co. Ld.</i>	
" " " heel .....		<i> 4 <math>\frac{1}{2}</math> "</i>		
" " " how constructed .....	<i> Forged &amp; built</i>			
" " " double or single plate .....	<i> Single</i>	<i> 92</i>		
" " " coupling, vertical or .....	<i> Horizontal</i>			
" " " horizontal .....				

## STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open Hearth Process.*  
*Bolton, Vaughan & Co; Cornett Iron Co. Ltd; Cargo Fleet Iron Co. Ltd; Dorman Long & Co;*  
*Pease & Partners Ltd; South Durham Steel & Iron Co.*  
Has the Steel been tested as required by the Rules? *Yes.*

Has the Steel been tested as required by the Rules?



EQUIPMENT No. <u>12554</u>												LETTER <u>N</u>		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.			
62195	1st Bower ...	26	0	7	Stockless	25	12	2	0			25½	Byers Type	S. Taylor & Sons	Septon, 2.5.29, Daysdale.
62194	2nd „ ...	25	3	14	— — —	25	10	1	7			25½	— “ —	— “ —	— “ — “ —
62442	3rd „ ...	23	0	14	— “ —	23	4	1	14			22	— “ — “ —	— “ — “ —	— “ — 28.6.29, — “ —
	Collective weight.	75	0	7								73			
62039	Stream .....	6	2	18	1 2 20	8	17	2	0			6½	Rodgers	S. Taylor & Sons	Septon, 21.3.29, Daysdale.

CHAIN CABLES.										HAWERS 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.
64267	210	1½	40½	58½	246.0.21	242	210	1⅞	Stud	S. Taylor & Sons	Septon, 11.7.29	TOWLINE...	90	3¼	22	90	3¼
											Daysdale	HAWERS & WARPS	90	2¼	9½	90	2¼
												"	90	2	7	90	1¾
Lean Stream Chain or Steel Wire	75	3½	✓	26	✓	✓	75	3½	✓	✓	✓	"	2290	2¼	9½	✓	✓

Steering Gear, Steam *Donkin & Co.* Steering Gear, Hand *Donkin & Co.*  
Boats *2 lifeboats 14'0" one dinghy 14'0"* Steering Chains, Size and Test *2 1/2 dia - 98 tons* Windlass *Steam Blake Chapman & Co.*  
Ceiling in Holds, thickness and material *2 1/2 H. H. riv. plates only* Cargo Battens, thickness, material and spacing *none*  
Cargo Hatchways. (Upper Deck) *Steel plates & angles & stays.* Thickness of Hatches *3"*  
Size of No. 1 Hatchway (Forward) *23'9" x 23'0" No. 2 23'9" x 23'6" No. 3 28'3" x 23'6" No. 4 26'0" x 23'6" No. 5* ✓ No. 6 ✓  
Number of Shifting Beams *and for Fore and Afters No 1-3; No 2-3; No 3-4; No 4-3.*

Per Pro  
JOHN CROWN & SONS, Ltd.

Builder's Signature

*W. Hamblen*  
Secretary

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 *no* The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

*This vessel has been constructed in accordance with the approved plans, the Rules, & Secretary's Letters. The materials & workmanship are good. The foreboard has been reinforced & the marks cut in on the vessel's sides. The double bottom tanks, peak tanks, & deep tank - amidships have been satisfactorily tested. The decks & bulk heads have been hose tested, Hindman, steering gear, & hand pump tried under working conditions, & all found satisfactory. The approved plans (5 in No.) are forwarded herewith. Three forging certificates are also enclosed. List of plans - Midship Section, Profile & Decks, Engine & Boiler Room Sections, Racking List, Pumping Arrangement, & plans of Midship Section, & Profile & Decks - as built.*

The amount of Entry Fee ..... £ 5 : : : Fees applied for, *9 NOV 1929*

Special Survey Fee.... £ 126 : 14 : : Received by me, *21.11.29*

*Freeboard* 4 : 3 : 4 Travelling Expenses, if any £ ✓ : ✓ : ✓

I am of opinion the Vessel should be Classed *100A1*

State whether the Vessel has been built under Special Survey *Yes.*

Signature

*James Dickie*  
Surveyor to Lloyd's Register of Shipping.

Certificate sent to *SUNDERLAND* Date of Issue *28/12/29*

Committee's Minute TUE. 26 NOV 1929

Character assigned *+ 100A1*

The surveyors are requested not to write on or below the Committee's Minute.

*Lloyd's A & CP*  
*Cargo Battens not fitted*

*Mike Glos*  
*26.11.29*

*+ L.R.C. 11.29*  
*C.L.*



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Lloyd's Register Foundation

W433-0125 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.)

20' 139'

CU DB & E 20' + 139'

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

1st Bower 17.0.21; M.K; 69; 28.3.29.  
2nd „ 17.0.14; M.K; 70; 28.3.29.  
3rd „ 15.0.0; M.B; 3952; 28.9.28.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. 26.75 ft., Bridge 15.75 ft., Forecastle 23.70 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-DEK (SK)

Official No. 161324 ; Signal Letters ✓ Is bottom of Vessel coated with cement ✓ if not give particulars of composition ✓

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	76.50	170	Fore peak tank,	23.50	170
Double bottom, under Engines and Boilers,	✓	✓	After peak tank,	11.50	24
Double bottom, if under Engines only, (AFT).	20.25	31	Deep tank, AMIDSHIPS.	6.75	117
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	✓	✓
Double bottom, forward,	63.00	128	Other tanks, if fitted,	✓	✓
Total 139	Total capacity of double bottom	329	(If necessary, furnish further information by sketch.)	✓	✓

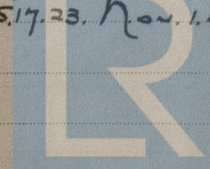
\* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 5720

Date 14.5.29

Dates of Surveys held while building

1929. May 14, 17, 31. June 3, 5, 10, 14, 19, 21, 25. July 2, 4, 8, 17, 24, 30. Aug 7, 9, 13, 15, 16, 22, 27, 29. Sep 3, 5, 9, 13, 17, 19, 20, 23, 30. Oct 1, 4, 7, 10, 11, 14, 15, 17, 23. Nov 1, 4, 5, 8, 12.



Lloyd's Register Foundation

Total No. of Visits 47