

## STEEL STEAMER or MOTORSHIP.

14 MAY 1930

Received at London Office.

State if Report has been sent on the Freeboard of the Vessel  $\frac{1}{2}$ .

State if Report is sent on the Machinery of the Vessel  $\frac{1}{2}$ .

Date of completion of report 12. 5. 30 Port of Glasgow No. 50356

Survey held at Glasgow Date First Survey 20. 5. 29 Last Survey 2. 5. 1930

On the (State if Machinery fitted Aft and) Steel Single Screw Steamer "CITY OF BARCELONA" (Machinery amidships)

State Type (Full Scantling, Complete Superstructure) Complete Superstructure with tonnage opening State Type of Erections 4c

TONNAGE under 5354.66 CLASS +100 A1 State if with freeboard as condition of Class  $\frac{1}{2}$  Built at Glasgow.

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 425.0

Total Breadth (greatest moulded) B 58.0

Gross Tonnage 5698.31 Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 37.75

Register Tonnage 3524.91 1st Longitudinal Number (L x D) = 16044

2nd Numeral L x (B + D) = 40694

REGISTERED DIMENSIONS. FEET. Framing Depth "d," at middle of length. See Sec. 3 (1d) 15.32

Length 428.0 Proportions—Depth to Length—Uppermost continuous deck to top of keel 11.26

Breadth 58.2 Do. Long Bridge to top of keel

Depth 27.3 Draught Moulded 25'-10 1/4

Launched 12th February 1930 Yard No. 636

Builders Barclay Curle & Co Ltd

Owners Ellerman Lines Ltd

Managers A&C Line Ltd (Where necessary to be entered in Reg. Book.)

Residence

Port of Registry Liverpool

If surveyed while building, afloat, or in dry dock  $\frac{1}{2}$ .

## 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>	36		<b>Bracket Floors, Frame</b>	7 3/2 36	
" " from 1/2 length to Collision bulkhead	27		" " Reversed Frame	6 3 41	
" " in peaks	24		" " Vertical Struts	10 x 3 1/2 x 3 1/2 42	
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>	4 3/2 x 58	
Frame Amidships, Angle, E or C	11 3 1/2 41		" " top Angles	3 1/2 3 1/2 54	
" " Extends up to	main & upper Dk. Alternately		" " bottom Angles	5 5 62	
<b>Reversed Frame Amidships, Angle</b>			<b>Side Girders, No. each side and thickness</b>	One @ 42	
" " Extends up to			<b>Margin Plate depth (excl. of flange) and thickness</b>	38 1/2 x 56	
<b>Depth of Framing Girder</b>	11		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	3 1/2 33 50	
<b>Frames in Uppermost Continuous 'tween Decks, Angle, E or C</b>	6 3 1/2 37		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	6 6 47	
" " Second 'tween Decks, Angle, E or C	11 3 1/2 41		" " Gussets, spacing and scantling abaft 1/2 len. from stem	Continuous 45	
" " Third " " " "	6 3 1/2 37		" " Gussets, spacing and scantling forward 1/2 len. from stem	20 42	
<b>Framing in Peaks, Angle or C</b>	8 3 1/2 48		<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>	70 3/4 x 50	
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amidships</b>	7/8 @ 4 7/8		<b>INNER BOTTOM PLATING.</b>		
<b>State if Frame Joggled</b>	$\frac{1}{2}$		Breadth and thickness of Middle Line Strake	66 x 51	
<b>PANTING ARRANGEMENTS (Sec. 7), state system and particulars</b>	maining & Strips as per approved plan		Thickness of remainder in Holds	46 - 40	
<b>STRENGTHENING OF BOTTOM FORWARD. State Particulars</b>	3 Strakes & thickness & intercostals as per approved plan		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?	$\frac{1}{2}$	
<b>SINGLE BOTTOM.</b>			<b>BEAMS. And mach. Spacing.</b>		
Floors, Depth and thickness at mid-line in Holds			<b>Uppermost Continuous Deck, amidships in Wells, Angle, E or C</b>	9 3 1/2 41	
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, E or C		
<b>Middle Line Keelson, on Floors, Angles, E or C</b>			Spacing	36	
" " Through Plate or Intercostal Plate			<b>Second Deck, amidships, Angle, E or C</b>	10 3 1/2 39	
" " Foundation Plate on Floors			Spacing	36	
" " Flat Plate Keel Angles			<b>Third Deck, amidships, Angle, E or C</b>	9 3 1/2 44	
<b>Side Keelsons, No. each side</b>			Spacing	36	
" " thickness of Intercostal Plate			<b>Fourth Deck, amidships, Angle, E or C</b>		
" " Angles			Spacing		
<b>DOUBLE BOTTOM.</b>			<b>Poop Deck, Angle, E or C</b>		
<b>Solid Floors, thickness and spacing</b>	42 @ 72		Spacing		
" " Are Frame and Reversed Frame joggled?	$\frac{1}{2}$		<b>Bridge Deck, Angle, E or C</b>		
<b>Bracket Floors, breadth and thickness at middle line</b>	33 x 45		Spacing		
" " breadth and thickness at margin plate	33 x 45		<b>Forecastle Deck, Angle, E or C</b>	11 3 1/2 44	
			Spacing	54 48	



## 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</b> , No. of Rows.....				
„ in 'tween Decks, Size and Spacing.....				
„ „ „ „ „				
„ in Holds „ „				
„ „ „ „ „				
<b>Centre Line Bulkhead.</b>				
Stiffeners and Spacing.....				
Plating, thickness of .....				
<b>STRINGERS AND DECKS.</b>				
<b>Uppermost Continuous Deck.</b>				
Stringer Plate, breadth and thickness in Wells	65 1/2 x .60	67 x .56		
„ „ „ „ in way of Bridge				
„ Angle in Wells .....	6 6 .68			
Thickness of Plating abreast Deck openings } in way of Wells .....	.50			
Thickness of Plating abreast Deck openings } in way of Bridge .....				
Thickness of Plating within line of openings...	.41			
If Sheathed, material and thickness .....				
<b>Second Deck.</b>				
Stringer Plate, breadth and thickness in Wells...	63 x .46	68 x .41		
Stringer Plate, breadth and thickness in way of Bridge				
Thickness of Plating abreast Deck openings } in way of Wells .....	.40			
Thickness of Plating abreast Deck openings } in way of Bridge .....				
Thickness of Plating within line of openings...	.34			
If Sheathed, material and thickness .....				
<b>Third Deck.</b>				
Stringer Plate, breadth and thickness.....	72 x .37			
If Plated, state thickness.....	.36			
<b>Fourth Deck.</b>				
Stringer Plate, breadth and thickness.....				
If Plated, state thickness .....				
<b>Poop Deck.</b>				
Stringer Plate, breadth and thickness .....				
Plating, Sheathing, material and thickness ...				
<b>Bridge Deck.</b>				
Stringer Plate, breadth and thickness.....				
Plating, Sheathing, material and thickness ...				
<b>Forecastle Deck.</b>				
Stringer Plate, breadth and thickness.....	.39			
Plating, Sheathing, material and thickness ...	.39			

## SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. <i>70</i>			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	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 .....	<i>53</i>	<i>.80</i>	<i>.73</i>	<i>.72</i>		<i>Double</i>	<i>7/8</i>	<i>3 3/5</i>	<i>Four</i>	<i>1</i>	<i>4</i>	<i>Lapped</i>	
" DBLG. (if any)	<i>3 @ 84</i>	<i>✓</i>											
BOTTOM PLATING, No. of Strakes ... <i>Four</i> ...)	<i>1 @ 78</i>	<i>.66</i>	<i>.60</i>	<i>.60</i>		<i>Double</i>	<i>7/8</i>	<i>3 3/5</i>	<i>Four</i>	<i>7/8</i>	<i>3 1/2</i>	<i>Lapped</i>	
BILGE PLATING, No. of Strakes ..... <i>One</i> ...)	<i>57</i>	<i>.66</i>	<i>.60</i>	<i>.60</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>3 1/2</i>	<i>"</i>	
SIDE PLATING, No. of Strakes ..... <i>Four</i> ...)	<i>78</i>	<i>.66</i>	<i>.48</i>	<i>.52</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>Three</i>	<i>"</i>	<i>3 1/8</i>	<i>"</i>	
UPPER DECK, Sheer- strake in <i>Wells</i> ...)	<i>72</i>	<i>.70</i>	<i>.52</i>	<i>.52</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>Four</i>	<i>"</i>	<i>3 1/2</i>	<i>"</i>	
UPPER DECK, Sheer- strake in Bridge ...)		<i>✓</i>											
STRAKE BELOW Sheer- strake in <i>Wells</i> ...)	<i>72</i>	<i>.66</i>	<i>.52</i>	<i>.52</i>		<i>Double</i>	<i>7/8</i>	<i>3 3/5</i>	<i>Four</i>	<i>7/8</i>	<i>3 1/2</i>	<i>Lapped</i>	
STRAKE BELOW Sheer- strake in Bridge ...)		<i>✓</i>											
POOP SIDE PLATING .....		<i>✓</i>											
BRIDGE SIDE PLATING ...		<i>✓</i>											
FOREC'TLE SIDE PLATING			<i>.42</i>			<i>Single</i>	<i>3/4</i>	<i>3</i>	<i>One</i>	<i>3/4</i>	<i>2 5/8</i>	<i>Lapped</i>	

## WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c) *One*

„ Deck next below *Six*

As per Rule *Seven*

## FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—		Seven	
Extending to Upper Deck (Sec. 3 c)		One	
,, Deck next below		Six	
As per Rule		Seven	

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks	(See Acs) 26	4 1/2 x 3 x 30	24	✓	✓
,, Second ,,	26-29	5 x 3 x 34	36	✓	✓
,, Third ,,		12 x 3 1/2 x 48	36 1/2	✓	✓
,, Holds .....	46-34	10 x 3 1/2 x 40	30	✓	✓
COLLISION (in Hold)	55-34	8 x 3 x 50	24	✓	✓
AFTER PEAK	48 1/2 x 30	5 x 3 x 30	24	✓	✓

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar .....	✓			✓
STEM .....	Mild Steel	2 5/8		✓
STERN FRAME {	Propeller Post .....	C Steel 16 1/2 x 7 3/4	Steel Co of Scotland	✓
	Rudder ,, .....	Forges Steel 9 5/8 x 9 1/4	Le Boulvers No 9 1/2 x 8 5/16	✓
RUDDER—A x D .....		570		✓
Speed of Vessel .....		12 Knots		✓
RUDDER	main piece at head ...	11 1/2	Dunlopstown	✓
	top of main piece	11		✓
	heel .....	8 1/4	Forges Co	✓
,,	how constructed .....	Forges ann	Shunk on	✓
,,	double or single plate	Double	242	✓
,,	coupling, vertical or horizontal .....	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*

Wm. Beardmore & Co. David Colville & Son. James Dunlop & Co.  
Grave & Partners Ltd. Lanarkshire Steel Co. & The Steel Company of Scotland

Has the Steel been tested as required by the Rules?



EQUIPMENT No. 41374												LETTER 41		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.						
91170	1st Bower ...	72	2	21				55	5	0	0	72½	Challenge Stockless	R. Hingley Sons	24 Sept 29	H. Green		
91159	2nd „ ...	71	3	7				54	15	0	0	72½	Do Do	Do	Do	Do	Do	Do
91161	3rd „ ...	63	1	3				50	5	0	0	62	Do Do	Do	Do	Do	Do	Do
	Collective weight.	207	3	3								207						
91079	Stream .....	20	3	11	5	1	4	21	10	1	7	20½ Ex Stock	Rodgers & W. Son	R. Hingley Sons	24 Sept 29	H. Green		

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.	Statutory.	Breaking.	Supplied.	Per Rule.	Length.	Diam.					Length.	Ins.		Tons.	Length.	Ins.	
85636	150	2 3/8	10 1/2	142 1/2	423-3-19				See Link	R. Hingley Sons	24 Sept 29	TOWLINE	130	5	73	130	5		
85534	150	2 3/8	10 1/2	142 1/2	423-0-18				Do	Do	Do 30 Sept 29	HAWSERS & WARPS }	2 @ 100	8'		2 @ 100	8'		
	300				847-0-9	84 1/4	300	2 3/8					"	2 @ 100	8'		2 @ 100	8'	
Iron Stream Chain or Steel Wire }		4 1/2																	
	120			59			120	4 1/2	5-F.N.										

Steering Gear, Steam	10" x 10" by Hastie	Emergency.	Steering Gear, Hand	Blocks & Tackle.
Boats	2 @ 24'-0" x 7'-6" x 3'-0"		Steering Chains, Size and Test	Windlass by Clarke Chapman 10" x 1 1/2"
Ceiling in Holds, thickness and material	2 1/2" b.p. on tilges		Cargo Battens, thickness, material and spacing	2" b.p. @ 9"
Cargo Hatchways.—(Upper Deck)	Steel plates and angles		Thickness of Hatches	3'
Size of No. 1 Hatchway (Forward)	26'-3" x 17'-4"	No. 2 51'-0" x 23'-0"	No. 3 11'-0" x 17'-4"	No. 4 33'-0" x 20'-0"
			No. 5 18'-0" x 17'-4"	No. 6 21'-0" x 20'-0"
Number of Shifting Beams and/or Fore and Afters	Three, Two, One, One, Three, Six, and Three respectively.			
Builder's Signature				

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel	40	(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo	Yes	The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.
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This Vessel has been built in accordance with the approved plans, the Secretaries letters of various date and in general conformity with the Societys rules	
The materials and workmanship are good. The double bottom tanks, peaks and deep tanks have been tested as required by the rules. The weather decks, bulkheads and tunnels have been tested with satisfactory results, the freeboards have been verified and the marks cut in on the Vessels sides. The bottom forward of 3/5 length has been strengthened in accordance with the rules. The deep tank and fore peak tank constructed to carry oil F.P. above 150°F and Section 20 of the rules. Complies with as far as applicable	
The approved plans as noted on back of report are forwarded herewith.	

The amount of Entry Fee	£ 9 : 0 : 0	Fees applied for,	7.5. 1930
Special Survey Fee	£ 342 : 9 : 0	Received by me,	9.5. 1930
Travelling Expenses, if any	£ 9 : 3 : 4		
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	Glasgow	Signature	Wm. D. O'Donovan
Date of issue	19/5/30.	Surveyor to Lloyd's Register of Shipping.	

Committee's Minute	GLASGOW 13 MAY 1930
Character assigned	+100A1
	With freeboard.
	5.30.
	+L.M.C. 5.30. F.D.
	for carrying oil 5.30. F.P. above 150°F. in Deep Tank and forward peak tank.

The Surveyor is requested not to write on or above the Committee's Minute.



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Lloyd's Register  
Foundation

0026212



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.)

### List of Plans.

Midship Section as built (forwarded in Advance.)

✓ Midship Section

✓ Profile

✓ Decks

✓ W. I. Bulkheads

✓ Fore end framing

✓ After end framing

✓ W. I. Bulkhead No 126

✓ Pillars Girders

✓ Deep Tank

✓ Expansion trunk & Deep Tank

✓ Main deck in way of boiler casing

✓ Cutting & swellings on Rudder stock

✓ Sternframes (2)

✓ Part plan of profile & decks

✓ Recons in Tank top 53-56

✓ Tank top in Engine Room

✓ Stiffening in way of derrick

✓ Midship Section for double stern only

✓ Section at main dk

✓ Shelter deck tonnage exempt spaces

✓ Attachments in Double bottom in No 2 Hold under pillars & stiff.

✓ Girders in way of heavy derrick

✓ Pumping Arrangements

✓ Forging and Casting reports of Rudder frame Sternpost (back post) Sternpost (upper post) & Dismant. Tellers

✓ Rudder frame

✓ Pumping Arrangements (as fitted)

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

1st Bower	46 - 0 - 20	K.H.	No 6741	30/7/29
2nd "	45 - 2 - 20	K.H.	No 6779	15/8/29
3rd "	40 - 2 - 18	K.H.	No 6759	30/7/29

**PARTICULARS FOR RECORD in the REGISTER BOOK.**—Length of Poop ✓ ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle 34.46 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) **2 Dks. (SK)**

Official No. ; Signal Letters

Is bottom of Vessel coated with cement  $\frac{2}{10}$  if not give

### PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length.		Where Fitted.	*Length.	
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	127.5	345	Fore peak tank,	23.18	129
Double bottom, under Engines and Boilers,	52.5	248	After peak tank,	12.0	35
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,	32.0	789
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,		
Double bottom, forward,	191.0	674	Other tanks, if fitted,		
Total capacity of double bottom		1267	(If necessary, furnish further information by sketch.)		

\* The wells are not to be included in the lengths of the tanks.  
371.0

Order for Special Survey No. 6009

Date 30. 5. 29

Dates of Surveys held while building

1929 May 20. 29 June 14. 11. 18. 26 28 July 1. 2. 5. 10. 29 Aug 1. 6. 16. 19. 21 Sep 2. 5. 9. 11  
17. 25 Oct 1. 8. 14. 15. 23. 30 Nov 6. 12. 14. 20. 25. 27 Dec 3. 5. 10. 13. 19 (1930) Jan 7. 10.  
15. 16. 20. 23. 25. 28. 29. 30. 31 Feb. 3. 4. 5. 6. 7. 10. 12. 26 Mar 21. 31 Apr 1. 7. 8. 23. 24  
26. 29 30 May 2.

Total No. of Visits 70