

STEEL STEAMER OF MOTORSHIP.

Received at London Office 9 NOV 1927

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 November 1927* Port of *Glasgow* No. *47211*
 Survey held at *Glasgow* Date First Survey *5th Nov 1926* Last Survey *27th October 1927*

in the (State if Machinery fitted Aft and (Machinery fitted aft) *S.S. "PLANTER"*
 if Single, Twin or Triple Screw)
 Date Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *Keel built to 1921-2 Rules* State Type of Erections *Prop. Br. & Feils*

TONNAGE under 5480.94 CLASS *+100 A1* State if with freeboard *no* Built at *Glasgow*
 Tonnage Deck... as condition of Class FEET.

Length from fore part of stem to after part of stern } *L 419.3*
 post on summer L.W.L. See Sec. 3 (1a)
 Breadth (greatest moulded) *B 54.29*
 Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 32.58*

1st Longitudinal Number (L x D) *86.87*
 Longitudinal *Transverse*
 2nd Numeral L x (B + D) *36424*
 Framing Depth "d" at middle of length. See *18.0*
 Sec. 3 (1d)
 Proportions—Depth to Length—Uppermost continuous deck to top of keel *12.87*
 Do. Long Bridge to top of keel *10.34*

Draught Moulded *26-3 1/2*
 Owners *Charante S S Co. Ltd.*
 Managers *J. & J. Harrison*
 (Where necessary to be entered in Reg. Book.)

Residence *Liverpool*
 Port of Registry *Liverpool*
 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.
FRAMES, Spacing amidships	<i>27</i>		Bracket Floors, Frame <i>BULB ANGLE</i>	<i>7 3 1/2 40</i>	
" " from 1/2 length to Collision bulkhead.....	<i>27</i>		" " Reversed Frame.....	<i>do 7 3 40</i>	
" " in peaks.....	<i>24</i>		" " Vertical Struts.....	<i>do 7 3 40</i>	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	<i>42 x 52</i>	
Frame Amidships, Angle, [or].....	<i>10 3 1/2 56</i>		" " top Angle.....	<i>one 4 1/2 4 1/2 60</i>	
" " Extends up to.....	<i>main deck upper deck alternately</i>		" " bottom Angles.....	<i>two 4 1/2 4 1/2 60</i>	
Reversed Frame Amidships, Angle	<i>✓</i>		Side Girders, No. each side and thickness	<i>two 40</i>	
" " Extends up to.....	<i>✓</i>		Margin Plate depth (excl. of flange) and thickness	<i>42 x 48</i>	
Depth of Framing Girder	<i>10</i>		" " Vertical Angle to Tank side	<i>5 5 50</i>	
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	<i>10 3 1/2 56</i>		Bracket abaft 1/2 len. from stem.....	<i>3 1/2 3 1/2 42</i>	
" " Second 'tween Decks, Angle, [or]	<i>6 1/2 3 1/2 40</i>		" " Vertical Angle to Tank side	<i>5 5 50</i>	
" " Third	<i>6 1/2 3 1/2 38</i>		Bracket forward 1/2 len. from stem.....	<i>30 1/2 x 20 x 40</i>	
Framing in Peaks, Angle or [.....	<i>8 3 1/2 40</i>		Gussets, spacing and scantling abaft 1/2 len. from stem.....	<i>do</i>	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<i>1" 5/16"</i>		Gussets, spacing and scantling forward 1/2 len. from stem.....	<i>69 x 40</i>	
State if Frame Joggled	<i>Yes</i>		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>69 x 40</i>	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars.....	<i>2 tiers beams 2 side stringers as per plan</i>		INNER BOTTOM PLATING.		
STRENGTHENING OF BOTTOM FORWARD. State Particulars.....	<i>as per appl. plan</i>		Breadth and thickness of Middle Line Strake.....	<i>72 x 50</i>	
SINGLE BOTTOM.			Thickness of remainder in Holds.....	<i>40 x 42</i>	
Floors, Depth and thickness at mid-line in Holds	<i>27</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>	
Height of Brackets at side above base line at toe of frame.....	<i>27</i>		BEAMS.		
Middle Line Keelson, on Floors, Angles, [or]	<i>8 3 1/2 42</i>		Uppermost Continuous Deck, amidships	<i>8 3 42</i>	
" " Through Plate or Intercostal Plate.....	<i>10 3 1/2 56</i>		" " in Wells, Angle, [or].....	<i>8 3 42</i>	
" " Foundation Plate on Floors.....	<i>27 x 54</i>		" " in way of Bridge, Angle, [or].....	<i>10 3 1/2 56</i>	
" " Flat Plate Keel Angles.....	<i>27 x 54</i>		Spacing.....	<i>27 x 54</i>	
Side Keelsons, No. each side	<i>2</i>		Second Deck, amidships, Angle, [or]	<i>12 x 3 1/2 x 3 1/2 54</i>	
" " thickness of Intercostal Plate.....	<i>54</i>		Spacing.....	<i>54</i>	
" " Angles.....	<i>54</i>		Third Deck, amidships, Angle, [or]	<i>12 x 3 1/2 x 3 1/2 54</i>	
DOUBLE BOTTOM.			Spacing.....	<i>54</i>	
Solid Floors, thickness and spacing	<i>40 @ 81</i>		Fourth Deck, amidships, Angle, [or]	<i>12 x 3 1/2 x 3 1/2 54</i>	
" " Are Frame and Reversed Frame joggled?.....	<i>Yes</i>		Spacing.....	<i>54</i>	
Bracket Floors, breadth and thickness at middle line	<i>36 x 40</i>		Poop Deck, Angle, [or]	<i>7 x 3 1/2 x 3 1/2 4</i>	
" " breadth and thickness at margin plate.....	<i>36 x 40</i>		Spacing.....	<i>on alt. frs.</i>	
			Bridge Deck, Angle, [or]	<i>7 1/2 3 42</i>	
			Spacing.....	<i>27</i>	
			Forecastle Deck, Angle, [or]	<i>10 3 1/2 46</i>	
			Spacing.....	<i>on alt. frs.</i>	

tested and indent.	
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12-1929	

ARPS.	
Length and Size per Table 53.	
Length.	
Width.	
Depth.	
Area.	
Volume.	
Weight.	
Stress.	
Strain.	
Modulus.	
Poisson's Ratio.	
Factor of Safety.	
Allowable Stress.	
Allowable Strain.	
Allowable Modulus.	
Allowable Poisson's Ratio.	
Allowable Factor of Safety.	
Allowable Allowable Stress.	
Allowable Allowable Strain.	
Allowable Allowable Modulus.	
Allowable Allowable Poisson's Ratio.	
Allowable Allowable Factor of Safety.	

PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows.....	<i>Two rows of</i>	
" in 'tween Decks, Size and Spacing	<i>widely spaced pillars with deck girders as per approved plan</i>	
" " " " " "		
" in Holds " "		
" " " " " "		
Centre Line Bulkhead.		
Stiffeners and Spacing.....	✓	
Plating, thickness of	✓	
STRINGERS AND DECKS.		
Uppermost Continuous Deck.		
Stringer Plate, breadth and thickness in Wells	<i>61 x .62</i>	
" " " " in way of Bridge	<i>61 x .48</i>	
" Angle in Wells	<i>5 5 .70</i>	
Thickness of Plating abreast Deck openings } in way of Wells	<i>.44</i>	
Thickness of Plating abreast Deck openings } in way of Bridge	<i>.50</i>	<i>What beam on alt</i>
Thickness of Plating within line of openings...	<i>.44</i>	
If Sheathed, material and thickness	✓	
Second Deck.		
Stringer Plate, breadth and thickness in Wells...	<i>51 x .48</i>	
Stringer Plate, breadth and thickness in way of Bridge	<i>51 x .44</i>	
Thickness of Plating abreast Deck openings } in way of Wells	<i>.40</i>	
Thickness of Plating abreast Deck openings } in way of Bridge	<i>.40</i>	
Thickness of Plating within line of openings...	<i>.40</i>	
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	<i>36 x .36</i>	
Plating, Sheathing, material and thickness ...	<i>.36 Lino 5 x 3" P.P.</i>	
Bridge Deck.		
Stringer Plate, breadth and thickness.....	<i>70 x .52</i>	
Plating, Sheathing, material and thickness ...	<i>.40</i>	
Forecastle Deck.		
Stringer Plate, breadth and thickness.....	<i>36 x .36</i>	
Plating, Sheathing, material and thickness ...	<i>.34</i>	

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged?			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth. Inches.	Thickness. Inches.	Thickness. Inches.	Thickness. Inches.			Diam. Inches.	Spacing cr. to cr. Inches.		Diam. Inches.	Spacing cr. to cr. Inches.	
FLAT PLATE KEEL	48	1.06	.74	.74		Double	1	3 1/4	Quint	1 1/8	4 1/2	Lapped
„ DBLG. (if any)	✓											
BOTTOM PLATING, No. } of Strakes66	.66	.60		"	7/8	3 3/8	Four	7/8	3 1/2	"
BILGE PLATING, No. of } Strakes66	.48	.60		"	"	"	"	"	"	"
SIDE PLATING, No. of } Strakes66	.46	.46		"	"	"	Treble	"	3 1/8	"
UPPER DECK, Sheer- } strake in Wells.....	62	.94	.46	.46		"	1 1/8	4 1/2	Quint	1 1/8	4 1/2	"
UPPER DECK, Sheer- } strake in Bridge ...	57	.66	.46	.46		"	7/8	3 3/8	Treble	7/8	3 1/8	"
STRAKE BELOW Sheer- } strake in Wells.....		.76	.46	.46		"	1	3 1/4	Quad	1	4	"
STRAKE BELOW Sheer- } strake in Bridge66				"	7/8	3 3/8	Treble	7/8	3 1/8	"
POOP SIDE PLATING40		Single	3/4	3	Double	3/4	2 5/8	"
BRIDGE SIDE PLATING70 .66				Double	1	3 1/4	Quad	1	4	"
FOREC'TLE SIDE PLATING			.42			Single	3/4	3	Double	3/4	2 5/8	"

WATERTIGHT BULKHEADS.

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

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

" Deck next below *one*

As per Rule *Seven*

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar		Flat plate		
STEM	Rolled Steel	10 x 2 7/8		
STERN FRAME {	Propeller Post	Steel casting 10 1/2 x 8	Steel Co of Scotland	
	Rudder ..	" 9 x 8	"	
RUDDER—A x D		498		
Speed of Vessel		11 knots		
RUDDER mainpiece at head ...	Steel forging	10 1/2	Without 3" E. Gewerkschaft	10"
" " heel ...	"	8	"	7 1/2"
" how constructed		Circular stock shrunk on arms		
" double or single plate		Single plate		1.08"
" coupling, vertical or horizontal		vertical		

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open hearth process.*
D. Colville & Sons W. Beardmore & Co. Vereinigte Stahlwerke AG,
Consett Iron Co. Lanarkshire Steel Co., Gutehoffnungshütte Oberhausen Akt.
Has the Steel been tested as required by the Rules? *Yes.*

EQUIPMENT No. 38261										LETTER at		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.
89304	1st Bower ...	65	2	0	Stallan	51	5	0	0	64	5	6	W. H. W. H. W. H.	LPHN Aug 31-1927	
89306	2nd " ...	65	1	7	do	51	5	0	0	64	5	6	do	LPHN Aug 31-1927	
89001	3rd " ...	65	0	18	do	51	2	2	0	64	5	6	do	LPHN June 9-1927	
	Collective weight.	195	3	25						194	7	2			
89298	Stream	19	0	18	5	1	0	20	1	3	14	19	Ordinary	do.	LPHN Aug 27-1927

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 Rule.	Length.	Diam.					Length.	Ins.		Length.	Ins.
80587	135	2 5/16	96 1/4	134 3/4	362-0-21	720 3/4	270	2 5/16	Steel	W. H. W. H.	LPHN Aug 26-1927	TOWLINE	120	5 1/4	80	120	5 1/4
80591	135	2 5/16	96 1/4	134 3/4	361-0-4	720 3/4	270	2 5/16	"	"	LPHN Aug 31-1927	HAWSE & WARPS	2090	2 3/4	15 1/2	2090	2 3/4
Iron-Stream Chain-Steel Wire	90	5		73			90	5	SW	"		"	2090	2 1/2	12 1/2	1090	2 1/2
																1-7" man	

Steering Gear, Steam *Brown Bros.* Steering Gear, Hand *efficient*

Boats *four* Steering Chains, Size and Test *no chains* Windlass *Clarke Chapman & Co.*

Ceiling in Holds, thickness and material *none* Cargo Battens, thickness, material and spacing *6 x 2" P. spaced 9"*

Cargo Hatchways.—(Upper Deck) *Steel Coatings 30" x .55* Thickness of Hatches *3" W.P.*

Size of No. 1 Hatchway (Forward) *22'-6" x 17'* No. 2 *31'-6" x 17'* No. 3 *11'-3" x 17'* No. 4 *36' x 17'* No. 5 *22'-6" x 17'* No. 6 *-*

Number of Shifting Beams and/or Fore and Afters *Four in No. 1 and 5, five in No. 2, one in No. 3, six in No. 4.*

For CHARLES CONNELL & CO., Limited.
W. H. W. H. SECRETARY.
 Builder's Signature

GENERAL DECLARATION *The workmanship and the materials are good.*

This vessel has been built in accordance with the approved plans, the Secretary's letters of various dates and in general conformity with the Rules (1921-2). The double bottom tanks, the deep tanks and fore & after peak tanks have been tested as required by the Rules. The weather decks and the tunnel have been hose tested with satisfactory results. The freeboards have been verified and the marks cut in on the vessel's sides.

The bottom forward of the 35th length has been strengthened in accordance with the Rules.

The approved plans, as noted on the back of the report, are forwarded herewith. Please return plans to this office for use in case of sister vessels. Midship sections as built forwarded in advance.

The amount of Entry Fee £ *9 : 0 : 0* Fees applied for, *4.11.1927*

Special Survey Fee.... £ *347 : 3 : 6* Received by me, *8.11.1927*

Freeboard £ *10 : 1 : 8*

Travelling Expenses, if any £ *-*

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

State whether the Vessel has been built under Special Survey *yes.* Signature *A. W. Paterson*

Certificate to be sent to *GLASGOW* Date of issue *14/11/27* Surveyor to Lloyd's Register of Shipping.

Committee's Minute *GLASGOW 8 - NOV 1927*

Character assigned *+ 100 A1*

10.27
Lloyd's arcp
+ LMC 10.27 subject

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
do (as built)

Profile
Deck plans
Bulwark
Panting arrangements
Hatch Webs.
Strengthening of bottoms forward
Rudder & Stern frame
Deep tank
Pillars & Girders
Mast plan
Tunnel plan
Bunker plan
Pumping Arrangements.

Reports.
Stern frame
Rudder
Tiller.

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

1st Bower
2nd "
3rd "

42-0-15 - KH - 3951-27² May 1926
41-3-27 - KH - 4043-16² June 1926
41-2-27 - HB - 2760-27² April 1926

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 37.0 ft., R.Q.D. — ft., Bridge 139.41 ft., Forecastle 43.66 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 decks Steel.

Official No. 149645; Signal Letters

Is bottom of Vessel coated with cement in Boiler spaces if not give description cement filllets at stern etc. cm.

PARTICULARS OF WATER BALLAST.—

PARTICULARS OF WATER CAPACITY.			PARTICULARS OF WATER CAPACITY.		
Where Fitted.	*Length.	Water Capacity.	Where Fitted.	*Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	119	332	Fore peak tank,		63
Double bottom, under Engines and Boilers,	65	275	After peak tank,		26
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,	31.5	911
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	✓	
Double bottom, forward,	177	563	Other tanks, if fitted,	✓	
Total length D.B. Tanks:-		1170	(If necessary, furnish further information by sketch.)		
361'			* The wells are not to be included in the lengths of the tanks.		

Order for Special Survey No. 5793

Date 3. 11. 26

Dates of Surveys held while building

1926 Nov 5 (1927) Feb 3. 14 Mar 13. 10. 17. 22. 24 Apr 8. 22 May 5. 23. 30 Jun 8. 13. 22
July 11. 13 Aug 2. 5. 9. 12. 17. 18. 22. 31 Sep 6. 9. 12. 14. 16. 19. 28 Oct 3. 7. 11. 13. 18. 31

Lloyd's Register Foundation
Total No. of Visits