

STEEL STEAMER ~~OR MOTORSHIP~~

Received at London Office

25 SEP 1935

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

17<sup>th</sup> September 1935

Port of

Glasgow

No. 56140

Survey held at

Glasgow

Date First Survey

27<sup>th</sup> Nov 1934

Last Survey

11<sup>th</sup> September 1935

On the

(State if Machinery fitted with or without Tonnage Openings)

Steel Screw Steamer "INVENTOR"

State Type

(Full Scantling, Complete Superstructure with or without Tonnage Openings)

Full Scantling

State Type of Erections

Poop Bridge &amp; Forecastle

TONNAGE under

5774.8

CLASS

+100 A1

State if with freeboard as condition of Class

no

Built at

Meadowside, 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 435.0

Launched

3<sup>rd</sup> July 1935

Yard No. 953 M

Breadth (greatest moulded)

B 55.79

Builders

D. &amp; W. Henderson &amp; Co. Ltd.

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

D 32.0

Owners

The Charente S.S. Co. Ltd.

Total

5774.18

Gross Tonnage

6209.57

Register Tonnage

3840.11

1st Longitudinal Number (L x D)

= 13920

Managers

T. &amp; J. Harrison

2nd Numeral L x (B + D)

= 38188

(Where necessary to be entered in Reg. Book.)

## REGISTERED DIMENSIONS.

FEET.

Length

437.9

Breadth

56.05

Depth

29.5

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

17.27

Residence

Liverpool.

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

13.59

Port of Registry

Liverpool.

Do. Long Bridge to top of keel

10.88

If surveyed while building, afloat, or in dry dock

Draught Moulded

25'-6"

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.
<b>FRAMES, Spacing amidships</b>	27		<b>Bracket Floors, Frame</b>	B.A. 8 3/2 .35	
" " from 3/8 length to Collision bulkhead	27		" " Reversed Frame	B.A. 7 3 .39	
" " in peaks	24		" " Vertical Struts	B.A. 7 3 1/2 .46	
<b>DE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>	44 x .54	
<b>Frame Amidships, Angle, [ or ]</b>	10 3/2 .40		" " top Angles	double 3 1/2 3 1/2 .52	
" " Extends up to	2 <sup>nd</sup> dk.		" " bottom Angles	do. 4 4 .58	
<b>Reversed Frame Amidships, Angle</b>	✓		<b>Side Girders, No. each side and thickness</b>	one .39	
" " Extends up to	✓		<b>Margin Plate depth (excl. of flange) and thickness</b>	37 1/2 .52	
<b>Depth of Framing Girder</b>	10"		" " Vertical Angle to Tank side	3 1/2 3 1/2 .42	
<b>Frames in Uppermost Continuous 'tween Decks, Angle, [ or ]</b>	8 3/2 .36		" " Bracket abaft 1/2 len. from stem	3 1/2 3 1/2 .42	
" " Second 'tween Decks, Angle, [ or ]	✓		" " Vertical Angle to Tank side	3 1/2 3 1/2 .42	
" " Third " " " "	✓		" " Bracket forward 1/2 len. from stem	3 1/2 3 1/2 .42	
<b>Framing in Peaks, Angle or [</b>	8 3/2 .36		" " Gussets, spacing and scantling abaft 1/2 len. from stem	every frame .39	
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amidships</b>	7/8 @ 6 1/4		" " Gussets, spacing and scantling forward 1/2 len. from stem	continuous .40	
<b>State if Frame Joggled</b>	Yes		<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>	5-7 x .45	
<b>PANTING ARRANGEMENTS</b> (Sec. 7), state system and particulars	deep framing x Shenglers as per app'd plan		<b>INNER BOTTOM PLATING.</b>		
<b>STRENGTHENING OF BOTTOM FORWARD.</b> State Particulars	as app'd plan		<b>Breadth and thickness of Middle Line Strake</b>	52 x .50	
<b>SINGLE BOTTOM.</b>			<b>Thickness of remainder in Holds</b>	.41	
<b>Floors, Depth and thickness at mid-line in Holds</b>			<b>Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. &amp; B. space and framing in Bunkers and Boiler Room?</b>	Yes	
<b>Height of Brackets at side above base line at toe of frame</b>			<b>BEAMS.</b>		
<b>Middle Line Keelson, on Floors, Angles, [ or ]</b>			<b>Uppermost Continuous Deck, amidships in Wells, Angle, [ or ]</b>	8 3/2 .42	
" " Through Plate or Intercoastal Plate			" " in way of Bridge, Angle, [ or ]	8 3 .51	
" " Foundation Plate on Floors			<b>Spacing</b>	every frame	
" " Flat Plate Keel Angles			<b>Second Deck, amidships, Angle, [ or ]</b>	8 x 3 1/2 x 3 1/2 x 4 1/2	
<b>Side Keelsons, No. each side</b>			<b>Spacing</b>	every frame	
" " thickness of Intercoastal Plate			<b>Third Deck, amidships, Angle, [ or ]</b>	12 x 3 1/2 x 3 1/2 x 60	
" " Angles			<b>Spacing</b>	alt. frames (see deck plan)	
<b>DOUBLE BOTTOM.</b>			<b>Fourth Deck, amidships, Angle, [ or ]</b>		
<b>Solid Floors, thickness and spacing</b>	39 every 3 frames		<b>Spacing</b>		
" " Are Frame and Reversed Frame joggled?	Yes		<b>Poop Deck, Angle, [ or ]</b>	7 3 .42	
<b>Bracket Floors, breadth and thickness at middle line</b>	3-9 .39		<b>Spacing</b>	every frame	
" " breadth and thickness at margin plate	2-9 .39		<b>Bridge Deck, Angle, [ or ]</b>	8 3 .35	
			<b>Spacing</b>	every frame	
			<b>Forecastle Deck, Angle, [ or ]</b>	8 3 .35	
			<b>Spacing</b>	every frame	



## 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>two</i>		Stringer Plate, breadth and thickness in way of Bridge .....	<i>48</i> <i>.44</i>	
"    in 'tween Decks, Size and Spacing.....	<i>widely</i>		Thickness of Plating abreast Deck openings in way of Wells .....	<i>.40</i>	
"    "    "    "    "    "	<i>Spaced</i>		Thickness of Plating abreast Deck openings in way of Bridge .....	<i>.36</i>	
"    in Holds    "    "    "	<i>pilars</i>		Thickness of Plating within line of openings...	<i>.40 x .36</i>	
"    "    "    "    "    "	<i>girders</i>		If Sheathed, material and thickness .....	<i>✓</i>	
	<i>as app'd.</i>		<b>Third Deck.</b>		
<b>Centre Line Bulkhead.</b>			Stringer Plate, breadth and thickness.....	<i>✓</i>	
Stiffeners and Spacing.....	<i>✓</i>		If Plated, state thickness.....	<i>✓</i>	
Plating, thickness of .....	<i>✓</i>		<b>Fourth Deck.</b>		
<b>STRINGERS AND DECKS.</b>			Stringer Plate, breadth and thickness.....	<i>✓</i>	
<b>Uppermost Continuous Deck.</b>			If Plated, state thickness .....	<i>✓</i>	
Stringer Plate, breadth and thickness in Wells	<i>59 1/2</i> <i>1.02</i>		<b>Poop Deck.</b>		
"    "    "    "    in way of Bridge	<i>59 1/2</i> <i>.40</i>		Stringer Plate, breadth and thickness .....	<i>37</i> <i>.36</i>	
"    Angle in Wells .....	<i>7</i> <i>7</i> <i>.93</i>		Plating, Sheathing, material and thickness ..	<i>the plates 15x36</i> <i>5x3" P.P.</i>	
Thickness of Plating abreast Deck openings in way of Wells .....	<i>.68</i>		<b>Bridge Deck.</b>		
Thickness of Plating abreast Deck openings in way of Bridge .....	<i>.36</i>		Stringer Plate, breadth and thickness.....	<i>59 1/2</i> <i>.50</i>	
Thickness of Plating within line of openings...	<i>.44 x .34</i>		Plating, <del>Sheathing, material and</del> thickness ..	<i>.44 x .38</i>	
If Sheathed, material and thickness .....	<i>✓</i>		<b>Forecastle Deck.</b>		
<b>Second Deck.</b>			Stringer Plate, breadth and thickness.....	<i>51</i> <i>.36</i>	
Stringer Plate, breadth and thickness in Wells...	<i>48</i> <i>.44</i>		Plating, <del>Sheathing, material and</del> thickness ..	<i>.34</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 .....	51	.82	.74	.72		Double	1	3 1/7	Quad	1	4	(lapped)	
„ DBLG. (if any)													
BOTTOM PLATING, No. of Strakes .....		.62	.48	.48		Double	7/8	3 3/8	„	7/8	3 1/2	„	
BILGE PLATING, No. of Strakes .....		.62	.48	.48		„	„	„	„	„	„	„	
SIDE PLATING, No. of Strakes .....		.62	.46	.46		„	„	„	treble	„	3 1/8	„	
UPPER DECK, Sheer- strake in Wells.....	62	.93	.46	.46		„	1	3 1/7	giant.	1	4 1/2	„	
UPPER DECK, Sheer- strake in Bridge ...		.61				„	7/8	3 3/8	treble	7/8	3 1/8	„	
STRAKE BELOW Sheer- strake in Wells.....	78	.76	.46	.46		„	1	3 1/7	quad	1	4	„	
STRAKE BELOW Sheer- strake in Bridge ...		.61				„	7/8	3 3/8	treble	7/8	3 1/8	„	
POOP SIDE PLATING .....				.40		Single	3/4	3	Single	3/4	2 5/8	„	
BRIDGE SIDE PLATING ...		.61				Double	7/8	3 3/8	quad	7/8	3 1/2	„	
FOREC'TLE SIDE PLATING			.42			Single	3/4	3	Single	3/4	2 5/8	„	

## WATERTIGHT BULKHEADS.

Total No. of <b>W.T. BULKHEADS</b> in Vessel—	8
Extending to Upper Deck (Sec. 3 c)	7
„ Deck next below	1
As per Rule	7

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar .....				
STEM .....				
STERN FRAME {				
{ Propeller Post				
{ Rudder				
RUDDER—A×D.....				
Speed of Vessel.....				
RUDDER mainpiece at head ...				
"                    "          heel ...				
"                    "          how constructed .....				
"                    "          double or single plate				
"                    "          coupling, vertical or				
"                    "          horizontal.....				

## STIFFENERS.

		Plating Thickness.	VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
No. 121.			B. A.	"		
MIDSHIP BULKH'D, Upper tween decks			28	6 x 3 x 30	30	-
"	" Second "		-			
"	" Third "		-			
"	" Holds .....		B. A.	"		
			41	30 11 x 3 1/2 x 43	30	-
COLLISION			B. A.			
"	(in Hold) .....		52	31 10 x 3 1/2 x 40	25 1/2	Semi-bow beam + flat
AFTER PEAK			B. A.			
"	" .....		75	31 7 x 3 x 33	22 2 1/2	Tunnel Room.

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)

Colvelles Ltd. Lancashire Steel Co. Steel Co. of Scotland

Has the Steel been tested as required by the Rules?

Yes.

open hearth

Lloyd's Register  
Foundation



EQUIPMENT No 39990										LETTER 21		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.				
94051	1st Bower ...	65	1	10	Stockless			51	5	0	0	68		Hall's Improved Type	Hingley & Sons Ltd.	LPNH. Jan. 12 - 1935 Green
94046	2nd „ ...	65	0	21	do.			51	2	2	0	68		do.	do.	LPNH Jan 12 - 1935 Green
94050	3rd „ ...	64	2	3	do.			50	17	2	0	58 1/2		do.	do.	LPNH Jan 12 - 1935 Green
	Collective weight.	195	0	6								194 1/2				
94242	Stream .....	19	0	0	IRON			19	17	2	0	19		Ordinary	Hingley & Sons Ltd.	LPNH April 5 - 1935 Green

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.	Statio- tory.	Break- ing.	Supplied.	Cwts.	qrs.	lbs.	Cwts.						Length.	Cir.		Length.	Cir.
87500	135	2 5/16	96 1/4	134 3/4	362-3-12						Stud link	Hingley & Sons Ltd.	LPNH. April 20, 1935	SW	120	4 3/4	64.6	120	4 3/4
87504	135	2 5/16	96 1/4	134 3/4	362-1-17						do.	do.	do.	SW	2090	2 3/4	15.2	2090	2 3/4
					725-1-1									SW	2090	2 1/2	13.2	2090	2 1/2
Stream	90	5									90 5	SW							

Steering Gear, Steam
Brown Bros.
Steering Gear, Hand
Brown Bros Satisfactory

Boats
4 lifeboats x 1 work boat
Steering Chains, Size and Test
none
Windlass
Steam
Clarke Chapman

Ceiling in Holds, thickness and material
2 1/2 W.P. under hatches & over bilges
Cargo Battens, thickness, material and spacing
6" x 2" W.P. - 15" centres

Cargo Hatchways.-(Upper Deck)
Steel plates x angles
Thickness of Hatches
3" W.P.

Size of No. 1 Hatchway (Forward)
22'-6" x 17' No. 2 33'-9" x 17' No. 3 11'-3" x 17' No. 4 11'-3" x 17' No. 5 31'-6" x 17' No. 6 20'-3" x 17'

Number of Shifting Beams and/or Fore and Afters
No 1 - four, No 2 - six, No 3 - one, No 4 - one, No 5 - six, No 6 - three.

For DAVID & WILLIAM HENDERSON & CO., Limited (In Liqdn.)

Builder's Signature
A.S. Mackenzie
Liquidator

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel ☒ (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo ☒ The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

The workmanship and 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 for the class contemplated.

The double bottom tanks and the peak & deep tanks have been tested under water pressure with satisfactory results. The watertight bulkheads, weather decks and tunnel have been tested as required by the rules. The freeboard markings have been cut in on the vessel's sides and verified.

The amount of Entry Fee ..... £ 10: 0: 0
Special Survey Fee.... £ 355: 5: 0
Freight and Travelling Expenses, if any £ 17: 0: 0

Fees applied for, 17.9.1935
Received by me, 8.11.1935

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 11/11/35.
Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 24 SEP 1935

Character assigned + 100 A1

9.35.

Lloyd's A.C.P. + L.M.C. 9.35.

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



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 approved plans forwarded herewith:—  
(Midship Section as built sent in advance)

- ✓ Midship Section.
- ✓ Profile & decks.
- ✓ Stern framing
- ✓ Panting argt. & stungers forward.
- ✓ Stern frame.
- ✓ Rudder.
- ✓ Cast Steel nose piece for fwd. edge of rudder.
- ✓ Hatch coamings & girders.
- ✓ Modification to pillars & girders in way frame No. 151.
- ✓ Strengthening under hold pillars
- ✓ Hatch plan
- ✓ Tunnel plan
- ✓ Side bunkers in way of boiler space
- ✓ Bunker plans
- ✓ W.T. Bulkheads
- ✓ Pumping plan.
- ✓ Tiller.
- ✓ Forging & Castings Certificates.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	41-0-21	—	Surveyor.	—	No. of Cert.	—	Date of Test.
	2nd "	41-0-20	—	A.B.	—	6611	—	23 <sup>rd</sup> Dec. 1931
	3rd "	41-3-17	—	A.B.	—	6642	—	21 <sup>st</sup> Jan. 1932
				M.B.	—	9443	—	27 <sup>th</sup> Nov. 1931.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 45 ft., R.Q.D. — ft., Bridge 144 ft., Forecastle 42 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.

Official No. 164267 : Signal Letters  
particulars of composition Is bottom of Vessel coated with cement yes if not give

#### PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length.		Water Capacity.	Where Fitted.	*Length.		Water Capacity.
	Feet.	Tons.			Feet.	Tons.	
Double bottom, aft,	121.5	324		Fore peak tank,			
Double bottom, under Engines and Boilers,	67.5	332		After peak tank,			89
Double bottom, if under Engines only,	-			Deep tank, aft,			59
Double bottom, if under Boilers only,	-			Deep tank, forward,	31.5		845
Double bottom, forward,	175.5	645		Other tanks, if fitted,	-		
Total capacity of double bottom			1301	(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. 6219

Date 14. 12. 34

Dates of Surveys held while building

1934 Nov: 27 Dec: 5. 7. 12. 14. 19. 21. 27 (1935) Jan: 10. 18. 25. 30 Feb: 1. 6. 15. 20. 26  
Mar: 5. 8. 13. 19. 27 Apr: 1. 5. 12. 17. 25 May: 2. 8. 14. 21. 23. 28. 30. 31 June: 4. 7. 11  
13. 14. 18. 21. 25. 26. 28 July: 1. 2. 3. 10. 24. 31 Aug: 2. 5. 6. 8. 12. 19. 21. 23. 28 Sep: 4. 7. 11

Total No. of Visits 63