

STEEL STEAMER ~~OF~~ MOTORSHIP

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

29th September 1928 Port of

Glasgow

No.

48434

Survey held at

Glasgow

Date First Survey

22. 2. 28

Last Survey

27th Sept.

1928

On the

(State if Machinery fitted Aft and
if Single, Twin or Triple Screw)

S. S. "BENCRACHAN"

State Type

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

Vessel built to 1921-2 Rules

State Type of Erections

Prop Br. & Fede

TONNAGE under
Tonnage Deck...

5528.18

CLASS

+100 A1

State if with freeboard
as condition of Class

No

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 428.0

Breadth (greatest moulded)

B 53.7

Total

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

D 32.25

Gross Tonnage

5919.51

Register Tonnage

3750.47

1st Longitudinal Number (L x D)

= 85.95

LONGITUDINAL

2nd Numeral L x (B + D)

= 36786

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

18.87

Proportions—Depth to Length—Uppermost con-
tinuous deck to top of keel

13.27

Do. Long Bridge to top
of keel

10.64

Draught Moulded

26' 0 1/4

Launched 28th August 1928 Yard No. 413

Builders Charles Connell & Co. Ltd.

Owners Ben Line Steamers Ltd.

Managers Wm. Thomson & Co.

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

Residence

Leith

Port of Registry

Leith

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	27		Bracket Floors, Frame	7 1/2 3 1/2 42	
" " from 3/4 length to Collision bulkhead	27		" " Reversed Frame	7 3 40	
" " in peaks	24		" " Vertical Struts	7 3 40	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	42 x 52	
Frame Amidships, Angle [or]	10 3 1/2 58		" " top Angle	one 4 1/2 4 1/2 60	
" " Extends up to	main dk & upper dk alternately		" " bottom Angles	two 4 1/2 4 1/2 60	
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	two 40	
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	38 x 48	
Depth of Framing Girder	10		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	5 5 50	
Frames in Uppermost Continuous 'tween Decks, Angle [or]	10 3 1/2 58		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	3 1/2 3 1/2 42	
Second 'tween Decks, Angle [or]	L 7 3 1/2 40		" " Gussets, spacing and scantling abaft 1/2 len. from stem	5 5 50	
Third	6 1/2 3 1/2 38		" " Gussets, spacing and scantling forward 1/2 len. from stem	30 x 20 x 40	
Framing in Peaks, Angle or [or]	7 1/2 3 1/2 44		Tank Side Brackets, height above base line at toe of Frame and thickness	66 1/2 x 40	
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships	1" and 7/8" 6" and 5 1/4"		INNER BOTTOM PLATING.		
State if Frame Joggled	yes		Breadth and thickness of Middle Line Strake	72 x 50	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	2 trans beams 2 side stringers as per plan		Thickness of remainder in Holds	40	
STRENGTHENING OF BOTTOM FOR- WARD. State Particulars	1 half height 1 full height intercostal casings bottom frames doubled three strakes shell plating P.S. midship thickness 5/16" collision bulk.		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?	yes	
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid line in Holds			Uppermost Continuous Deck, amidships in Wells, Angle [or]	8 3 42	
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle	8 3 42	
Middle Line Keelson, on Floors, Angle [or]			Spacing	27	
" " Through Plate or Intercostal Plate			Second Deck, amidships, Angle [or]	12 x 3 1/2 x 3 1/2 x 46	
" " Foundation Plate on Floors			Spacing	54	
" " Flat Plate Keel Angles			Third Deck, amidships, Angle [or]		
Side Keelsons, No. each side			Spacing		
" " thickness of Intercostal Plate			Fourth Deck, amidships, Angle [or]		
" " Angles			Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle [or]	9 3 38	
Solid Floors, thickness and spacing	40 @ 81		Spacing	54 x 48	
" " Are Frame and Reversed Frame joggled?	yes		Bridge Deck, Angle [or]	8 3 40	
Bracket Floors, breadth and thickness at middle line	36 x 40		Spacing	27	
" " breadth and thickness at margin plate	36 x 40		Forecastle Deck, Angle [or]	9 x 3 1/2 x 3 1/2 x 42	
			Spacing	54 x 48	

PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows.....	Two rows of	
" " " " " "	widely spaced	
" " " " " "	pillars with	
" " " " " "	deck girders	
" " " " " "	as per	
" " " " " "	approved plan	
Centre Line Bulkhead.		
Stiffeners and Spacing.....	✓	
Plating, thickness of	✓	
STRINGERS AND DECKS.		
Uppermost Continuous Deck.		
Stringer Plate, breadth and thickness in Wells	63 x .68	✓
" " " " " " in way of Bridge	63 x .48	✓
" Angle in Wells	5 5 .70	✓
Thickness of Plating abreast Deck openings } in way of Wells .....	.50	✓
Thickness of Plating abreast Deck openings } in way of Bridge .....	.42	✓
Thickness of Plating within line of openings...	.50	✓
If Sheathed, material and thickness	✓	
Second Deck.		
Stringer Plate, breadth and thickness in Wells...	48 x .48	✓
Stringer Plate, breadth and thickness in way of Bridge		✓
Thickness of Plating abreast Deck openings } in way of Wells .....	.4	✓
Thickness of Plating abreast Deck openings } in way of Bridge .....	.4	✓
Thickness of Plating within line of openings...	.4	✓
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	36 x .36	✓ .34
Plating, Sheathing, material and thickness ...		✓ .34
Bridge Deck.		
Stringer Plate, breadth and thickness.....	66 x .54	✓
Plating, Sheathing, material and thickness ...		✓ .40
Forecastle Deck.		
Stringer Plate, breadth and thickness.....	36 x .36	✓
Plating, Sheathing, material and thickness	plating .25 Sheathing 5x3 P.P.	✓

SHELL PLATING.

SCANTLINGS.						RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.			SINGLE OR DOUBLE.	Diam.		Spacing or to cr.	Diam.		Spacing or to cr.
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.	
FLAT PLATE KEEL	48	1.06	.74	.74		Double	1	3 1/4	Quint.	1 1/8	4 1/2	lapped
„ DELG. (if any)												
BOTTOM PLATING, No. of Strakes .....		.66	.48	.48		„	7/8	3 3/8	Quad.	7/8	3 1/2	„
BILGE PLATING, No. of Strakes .....		.66	.48	.48		„	„	„	„	„	„	„
SIDE PLATING, No. of Strakes .....		.66	.46	.46		„	„	„	Treble.	„	3 1/8	„
UPPER DECK, Sheer-strake in Wells	63	1.08	.46	.46	57 x 1.08	„	1 1/8	4 1/2	Quint.	1 1/8	4 1/2	„
UPPER DECK, Sheer-strake in Bridge ...	57	.66				„	7/8	3 3/8	Treble.	7/8	3 1/8	„
STRAKE BELOW Sheer-strake in Wells .....		.86	.46	.46		„	1	3 3/4	Quad.	1	4	„
STRAKE BELOW Sheer-strake in Bridge ...		.66				„	7/8	3 3/8	Treble	7/8	3 1/8	„
POOP SIDE PLATING .....				.40		Single	3/4	3	Double	3/4	2 5/8	„
BRIDGE SIDE PLATING ...		.70 x .66				Double	1	3 3/4	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— 6
Extending to Upper Deck (Sec. 3 c) 5
" 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		Flat plate		
STEM	Roll'd Steel	10" x 2 7/8"		
STERN FRAME {	Propeller Post	Steel	10 1/2" x 8" Danington	
	Rudder	forging	9" x 8" Forge Ltd.	
RUDDER—A x D		500		
Speed of Vessel	not exceeding	12 Knots		
RUDDER mainpiece at head ...	Steel	10" Withouther Bungail		
" " heel	forging	7 1/2" Easch. Lew.		
" " how constructed		Circular stock shrunk on arms		
" " double or single plate		Single plate 1.1"		
" " 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 heart process.*
D. Schille & Sons, W. Beardmore & Co., Dorman Long, Lancaster Shipbuilding Co.,
Dillingen Maschinenwerke.

Has the Steel been tested as required by the Rules? *Yes.*

EQUIPMENT No. 38434										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.			
61264	1st Bower ...	85	0	0	Stockless			61	0	0	0	68	Tropen	S. Taylor Sons	LPHT. June 23 rd 1928 Drysdale
61266	2nd „ ...	83	3	21	do			60	10	0	0	68	do	do	LPHT. June 23 rd 1928 Drysdale
61263	3rd „ ...	59	3	21	do			48	5	3	21	58 1/2	do	do	LPHT. June 23 rd 1928 Drysdale
	Collective weight.	228	3	14								194 1/2			
61158	Stream	19	1	24	5' 0" 25			20	6	1	0	19	Rodgers	do	LPHT. May 17 th 1928 Drysdale

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.		
	Fathoms.	Ins.	Tons.	Break-ing.	Supplied.	Per Rule.		Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
4044	270	2 5/8	96 1/4	134 3/4	735-2-17	720-3-4	270	2 5/8	Link	Stud	S. Taylor & Sons	LPNG. 31 st July 1928 Haffner	S.W. TOWLINE	120	5 1/4	80 1/2	120	5 1/4	
													S.W. HAWSERS & WARPS	105	3 1/2	26	90	2 3/4	
													S.W.	90	2 3/4	15 1/2	90	2 3/4	
Iron Stream Chain or Steel Wire	90	5		73				90	5	Steel wire			M.M.	90	7		90	7	
													M.M.	90	7		90	7	

Steering Gear, Steam *Caldwell & Co. Emergency* 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 coamings 30" x 44* Thickness of Hatches *2 1/2" pine*

Size of No. 1 Hatchway (Forward) *27' x 18'* No. 2 *31' 6" x 18'* No. 3 *13' 6" x 18'* No. 4 *31' 6" x 18'* No. 5 *27' 9" x 18'* No. 6

Number of Shifting Beams and for Fore and Afters *5 in Nos. 1-2-4 & 5 and 2 in No. 3.*

For CHARLES CONNELL & CO., Limited
Builder's Signature *D. W. Barron* 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.

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 tank and 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 3/5th length has been strengthened in accordance with the Rules.

Copy of letter from Owners approving bulkhead arrangement enclosed.

The amount of Entry Fee £ 9 : 0 : 0

Special Survey Fee.... £ 348 : 0 : 0

Freeboard
Travelling Expenses, if any £ 10 : 1 : 8

Fees applied for, *9 OCT 1928*

Received by me, *11-10-28*

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

"1 Int. Bk. fwd. & 1 Trans. dk. Bk. aft. dispensed with; 5 Bk. to upper dk., 1 Bk. to 2nd dk."

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

Certificate to be sent to *GLASGOW*

Date of issue *15/10/28*

Signature

Surveyor to Lloyd's Register of Shipping.

Committee's Minute *GLASGOW 9 OCT 1928*

Character assigned *+100A1*

9.28

Lloyds A&CP

+ L.M.C. 9.28. 7D.

1 Intermediate Bk. fwd. & 1 Trans. dk. Bk. aft. dispensed with

5 Bk. to upper dk. 1 Bk. to 2nd dk.



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Lloyd's Register Foundation

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.)

Sister vessels:— "BENVENUE" Gl. Rpt. No. 46855.
"BENMOHR" Gl. Rpt. No. 47940.

The approved plans, as noted below, are forwarded herewith. Kindly return plans to this office for use in case of sister vessel. Midship section as built forwarded in advance.

✓ Midship Section.

✓ Profile.

✓ Deck plans.

✓ Bulkhead.

✓ Lifting arrangements.

✓ Hatch webs.

✓ Strengthening of bottom for.

✓ Stem post & Rudder.

✓ Deep tank.

✓ Pillars & girders.

✓ Masts.

✓ Tunnel plan.

✓ Tiller.

✓ Quadrant.

✓ Pumping plan.

Reports.

Stem frame

Rudder

Tiller

Quadrant.

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

1st Bower

2nd "

3rd "

Trojan (forged open hearth ingot steel) anchors

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 35.2 ft., R.Q.D. — ft., Bridge 142.5 ft., Forecastle 47.4 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. 160652. Signal Letters.
particulars of composition.

Is bottom of Vessel coated with cement. Cement fillets at stems & buttocks if not give Boiler space cement

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	115	290	Fore peak tank,	✓	
Double bottom, under Engines and Boilers,	52	212	After peak tank,		32
Double bottom, if under Engines only,			Deep tank, aft,	✓	
Double bottom, if under Boilers only,			Deep tank, forward,	31	949
Double bottom, forward,	205	646	Other tanks, if fitted,	✓	
Total capacity of double bottom		1148	(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. 5892

Date 26.1.28

Dates of Surveys held while building

1928 Feb 22-29 Mar 9-13-21-19-23-27-29 Apr 2-4-6-10-12-18-26 May 1-9-11-15-25-30 June 1-5-7-14-21-26-28 July 2-5-10-26-30 Aug 2-7-10-13-15-21-28-31 Sep 7-13-17-21-25-27

Total No. of Visits 48