

## STEEL STEAMER or MOTORSHIP.

Received at London Office 12 SEP 1928

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 4th September 1928

Port of GREENOCK.

No. 18956

Survey held at PORT GLASGOW

Date First Survey 1st November 1924

Last Survey 4th September 1928

On the (State if Machinery fitted with and if Single, Twin or Triple Screw)

SINGLE SCREW STEAMER "BENHOLM."

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

FULL SCANTLING

State Type of Erections POOP BRIDGE &amp; FOLE

TONNAGE under Tonnage Deck... 4780.14

CLASS + 100A1

State if with freeboard as condition of Class No FEET.

Built at PORT 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 404.75

Launched MAY 30<sup>TH</sup> 1928 Yard No. 383

Total

Breadth (greatest moulded) B 53.3

Builders ROBERT DUNCAN &amp; Co.

Gross Tonnage 5025.82

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 29

Owners ORIEL SHIPPING Co LTD

Register Tonnage 3161.54

1st Longitudinal Number (L x D) = 11737.75

Managers J EDGAR &amp; Co.

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

2nd Numeral L x (B + D) = 33310.92

Residence ORIEL CHAMBERS, 14 WATER STREET, LIVERPOOL.

## REGISTERED DIMENSIONS. FEET.

Length 407.0

Framing Depth "d." at middle of length. See Sec. 3 (1d) 17.00

Breadth 53.5

Proportions—Depth to Length—Uppermost continuous deck to top of keel 13.95

Depth 26.75

Do. Long Bridge to top of keel 11.08

Draught Moulded TOP OF KEEL 24'-6 1/4

Port of Registry LIVERPOOL.

If surveyed while building, afloat, or in dry dock

BUILDING &amp; 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.
FRAMES, Spacing amidships	30		Bracket Floors, Frame	BA * 8 3 1/2 47	8 x 3 1/2 x 51 OBS
" " from 1/2 length to Collision bulkhead	27		" " Reversed Frame	BA * 7 1/2 3 47	7 1/2 x 3 x 51 OBS
" " in peaks	24		" " Vertical Struts	34 x 40	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	40 x 52	
Frame Amidships, Angle E or C	* 10 3 1/2 42	10 x 3 1/2 x 42 OBS.	" " top Angles	3 1/2 3 1/2 50	
" " Extends up to	2 <sup>ND</sup> Dk		" " bottom Angles	4 4 56	
Reversed Frame Amidships, Angle	BA FRAMING		Side Girders, No. each side and thickness	ONE @ 38	
" " Extends up to	✓		Margin Plate depth (excl. of flange) and thickness	45 x 51	
Depth of Framing Girder	10		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	3 1/2 3 1/2 44	
Frames in Uppermost Continuous 'tween Decks, Angle E or C	* 7 1/2 3 1/2 37	7 1/2 x 3 1/2 x 36 OBS.	" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	3 1/2 3 1/2 44	
" " Second 'tween Decks, Angle E or C	✓		" " Gussets, spacing and scantling abaft 1/2 len. from stem	EVERY 2 <sup>ND</sup>	SCANTLINGS AS PER APPROVED PLAN
" " Third " " " "	✓		" " Gussets, spacing and scantling forward 1/2 len. from stem	EVERY FRAME	
Framing in Peaks, Angle E or C	7 1/2 3 37		Tank Side Brackets, height above base line at toe of Frame and thickness	62 1/2 x 44	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 ABOUT 5 1/4		INNER BOTTOM PLATING.		
State if Frame Joggled	YES.		Breadth and thickness of Middle Line Strake	73 x 48	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	YES FRAME SYSTEM. 3 WEB FRAMES 3 SIDE STRINGERS 2 EXTRA INTERCOSTALS, PLATING & FRAMES FOR AS PER RULE & APPROVED PLAN		Thickness of remainder in Holds	43.	
STRENGTHENING OF BOTTOM FORWARD. State Particulars			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 E or C	6 1/2 3 1/2 39	✓
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle E or C	6 1/2 3 42	✓
Middle Line Keelson, on Floors, Angles, E or C			Spacing	30"	✓
" " Through Plate or Intercostal Plate			Second Deck, amidships, Angle E or C	* 7 3 39	✓
" " Foundation Plate on Floors			Spacing	30"	✓
" " Flat Plate Keel Angles			Third Deck, amidships, Angle E or C		
Side Keelsons, No. each side			Spacing		
" " thickness of Intercostal Plate			Fourth Deck, amidships, Angle E or C		
" " Angles			Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle E or C	* 7 3 35	7 x 3 x 32 OBS
Solid Floors, thickness and spacing	40 EVERY 3 <sup>RD</sup>	✓	Spacing	30"	✓
" " Are Frame and Reversed Frame joggled?	YES.	✓	Bridge Deck, Angle E or C	* 6 1/2 3 35	6 1/2 x 3 x 34 OBS
Bracket Floors, breadth and thickness at middle line	35 x 40	✓	Spacing	30"	✓
" " breadth and thickness at margin plate	30 x 40	✓	Forecastle Deck, Angle E or C	* 7 3 45	7 x 3 x 48 OBS
			Spacing	27 x 24	

398-0049 1/2



## 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>	CENTRE LINE	/	Stringer Plate, breadth and thickness in way of Bridge .....	66x36	/
" in 'tween Decks, Size and Spacing.....	BULKHEAD WITH	/	Thickness of Plating abreast Deck openings in way of Wells .....	35	/
" " " " "	ONE ROW OF WIDE SPACED	/	Thickness of Plating abreast Deck openings in way of Bridge .....	32	/
" in Holds .....	PILLARST GIRDEERS ON	/	Thickness of Plating within line of openings..	32x30	/
" " " " "	EACH SIDE.	/	If Sheathed, material and thickness .....	NOT SHEATHED	/
<b>Centre Line Bulkhead.</b>			<b>Third Deck.</b>		
Stiffeners and Spacing.....	9x3x50 BA	/	Stringer Plate, breadth and thickness.....		
Plating, thickness of ..... :30	SPACED 60"	/	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	34x1.1 FORD } AND AS PER 44x1.1 AFT } APPROVED PLAN	/	If Plated, state thickness.....		
" " " " " in way of Bridge	56 1/2 x 39	/	<b>Poop Deck.</b>		
" Angle in Wells .....	7 7 .96	/	Stringer Plate, breadth and thickness .....	35 x 34	/
Thickness of Plating abreast Deck openings in way of Wells .....	.56	/	Plating, Sheathing, material and thickness ...	30 NOT SHEATHED	/
Thickness of Plating abreast Deck openings in way of Bridge .....	.39	/	<b>Bridge Deck.</b>		
Thickness of Plating within line of openings...	.40x.33.	/	Stringer Plate, breadth and thickness.....	81x50	/
If Sheathed, material and thickness .....	NOT SHEATHED.	/	Plating, Sheathing, material and thickness ...	49 ABREAST HATCHWAYS. .39x.42 OTHER WISE AS APPROVED.	NOT SHEATHED
<b>Second Deck.</b>			<b>Forecastle Deck.</b>		
Stringer Plate, breadth and thickness in Wells...	66 x 41 AS APPROVED	/	Stringer Plate, breadth and thickness.....	34x34.	/
			Plating, Sheathing, material and thickness ...	28, 5-3. D.P. SHEATHING	/

## SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled? <i>No.</i>	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 .....	49	.77	.67	.67		DOUBLE	1"	3 <sup>3</sup> / <sub>4</sub>	QUAD	1"	4"	LAPPED	
„ DBLG. (if any)													
BOTTOM PLATING, No. of Strakes .....	THREE	.62	.59	.50		"	7/8	3 1/3	TREBLE	7/8	3 1/3	"	
BILGE PLATING, No. of Strakes .....	ONE	.62	.46	.53		"	"	"	"	"	"	"	
SIDE PLATING, No. of Strakes .....	THREE	.62	.44	.49		"	"	"	"	"	"	"	
UPPER DECK, Sheer-strake in Wells .....	50		.80	.82		"	1"	3 <sup>3</sup> / <sub>4</sub>	QUAD	1"	4"	"	
			IN WELLS.										
UPPER DECK, Sheer-strake in Bridge ...	50	.62				"	7/8	3 1/3	TREBLE	7/8	3 1/3	"	
STRAKE BELOW Sheer-strake in Wells .....	64		.68	.68		"	7/8	3 1/3	"	7/8	"	"	
			IN WELLS.										
STRAKE BELOW Sheer-strake in Bridge ...	64	.62				"	7/8	3 1/3	"	7/8	"	"	
POOP SIDE PLATING .....				.38		SINGLE	3/4	3	SINGLE	3/4	2 <sup>5</sup> / <sub>8</sub>	"	
BRIDGE SIDE PLATING ...		.60				DOUBLE	7/8	3 1/3	QUAD	7/8	3 1/2	"	
FOREC'TLE SIDE PLATING			.40			SINGLE	3/4	3	SINGLE	3/4	2 <sup>5</sup> / <sub>8</sub>	"	

## WATERTIGHT BULKHEADS.

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

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

Deck next below **ONE**

As per Rule..... **Six.**

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings	Spacing.
MIDSHIP BULKH'D, Upper tween decks		27-26	ANg 5x3x30	32"	✓	
"	" Second "					
"	" Third "					
"	" Holds .....	47-30	BA 12x3 1/2 x 56	32"	✓	
COLLISION " (in Hold) .....		51-29	BA. 7 1/2 x 3 x 40	24		2 SEMI-BOX BEAMS TUNNEL RECESS
AFTER PEAK " " .....		49-30	7 1/2 x 3 x 40	24		1 SEMI-BOX BEAM

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
<b>KEEL, Bar</b> .....	FLAT PLATE KEEL. ✓			
<b>STEM</b> .....	9 3/8 x 2 1/2 ✓			
<b>STERN FRAME</b> { Propeller Post .....	10 1/2 x 7 3/8 SKODA WORKS ✓			
{ Rudder „ .....	CASTING 9 x 7 3/8 LTD ✓			
<b>RUDDER—A x D</b> .....	444 3/4 ✓			
<b>Speed of Vessel</b> .....	UNDER 12 KNOTS ✓			
<b>RUDDER</b> mainpiece at head ...	10 SKODA WORKS ✓			
„ „ heel ...	7 1/2 LTD ✓			
„ how constructed .....	FORGED ARMS SHRUNK ON TO MAINPIECE ✓			
„ double or single plate .....	SINGLE 1.10 ✓			
„ coupling, vertical or horizontal .....	VERTICAL. © 2020 ✓			

STEEL.

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

Manufacturer's Name or Trade Mark of the Steel used in the construction of the vessel (state process of manufacture) Sanamshire, Dunlop, Steel Co of Scotland, Consett, Beardmore, Colville

Has the Steel been tested as required by the Rules? YES.



12 SEP 1928

EQUIPMENT No. 35362-58

LETTER Z

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.				
31025	1st Bower ...	61	0	7	Stockless			49	0	2	14	63 1/2	BYERS IMPROVED	NOT STATED	SUNDERLAND 3/5/28 J.H. BUTLER.
31024	2nd " ...	61	0	7	"			49	0	2	14	63 1/2	"	"	"
31026	3rd " ...	61	0	0	"			48	17	2	0	54 1/2	"	"	"
	Collective weight	183	0	14								182			"
43368	Stream .....	17	2	14	4	2	5	10	14	1	14	17 1/2	ORD F. W. IRON	RSYKES & SON LTD	BRADLEY HEATH 10/1/28 L.E. PAUL.

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.	Cir.		Length.	Cir.
31636	270	2 1/4	9 1/8	127 1/2	695	2 1/4	682 1/4	270	2 1/4	STEEL LINK	R. SYKES & SON LTD	CARDIFF, 26/2/28 A. JONES.	TOWLINE ...	120	5	73	120	5
													HAWSERS & WARPS	2@90	2 3/4	15 1/2	2@90	2 3/4
														2@90	2 1/2	12 1/2	2@90	2 1/2
Stream Steel Wire	90	4 3/4		47				90	4 3/4									

Steering Gear, Steam HASTIE'S

Steering Gear, Hand RELIEVING TACKLE FROM AFTER WINCH.

Boats Two @ 24', Two @ 16' Steering Chains, Size and Test 17/16, 24 3/4 TONS, No 72351. STEAM Windlass CLARKE, CHAPMAN & CO.

Ceiling in Holds, thickness and material 2 1/2" W.P. UNDER HATCHES & OVER BILGES Cargo Battens, thickness, material and spacing 6x2 W.P. SPACED 9" APART

Cargo Hatchways. - (Upper Deck) 30'x44 COAMINGS. 2 1/2" SOLID ON UPPER DK. Thickness of Hatches 2 1/2" BRIDGE "

Size of No. 1 Hatchway (Forward) 31'6" x 22'6" No. 2 40'0" x 22'6" No. 3 25' x 22'6" No. 4 42'6" x 22'6" No. 5 35' x 22'6" No. 6 ✓

Number of Shifting Beams and for Fore and Afters No 1 = 5 : No 2 = 6 : No 3 = 4 : No 4 = 6 : No 5 = 6.

Builder's Signature

Robert Duncan & Co. Ltd.  
per Kelly

GENERAL DECLARATION

This vessel has been built in accordance with the approved plans and in general conformity with the Society's rules for the class contemplated. The workmanship is good and the materials used in the vessel's construction are also good.

The freeboard has been verified and the marks cut in on the vessel's sides.

The double bottom tanks, deep tank, after peak tank and the fore peak have been tested to rule requirements and found satisfactory.

The weather decks, W.T. Bulkheads and tunnel were hose tested and found satisfactory.

The builders state that the Owners have written direct to London regarding the omission of the Tween deck bulkhead in after hold.

The amount of Entry Fee ..... £ 9 : 0 : 0

Special Survey Fee .... £ 325 : 13 : 0

FREEBOARD 10 1 8  
Travelling Expenses, if any £ :

Fees applied for,

7th SEPTEMBER 1928

Received by me,

10.9.28

I am of opinion the Vessel should be Classed + 100 A.I.

INTWEEN DK BHP IN AFTER HOLD  
DISPENSED WITH  
5 BHP ST. UPPER DK. 1 BHP TO 2ND DK.

State whether the Vessel has been built under Special Survey Yes

Signature

Kenneth Inglis

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to Greenock Office

Date of issue

25/9/28.

Committee's Minute GLASGOW 11 SEP 1928

Character assigned - 100 A.I.

9.28.

Lloyd's A&CP

+ L.M.C 9.28

FD

WMM

Intermediate Tw DK. B.H. in after hold dispensed with  
5 B.H. to upper DK 1 B.H. to 2nd DK.



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Lloyd's Register  
Foundation

98-0049 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.)

This vessel is a duplicate of the S.S. Cape St Andrew & the S.S. Cape St George, Messrs Robert Duncan & Co. Nos 381 & 382 respectively, & Greenock first entry reports Nos 18856 & 18926, except in the following arrangements.

The following approved plans are enclosed together with plan of midship section & profile of decks as built & forging reports on stern frame & rudder.

The approved plan of stern frame & rudder was forwarded with the plans of the S.S. Cape St George.

Profile & decks

Midship section

Pillars & girders

Deep tank wash plate

Bridge end stiffening

Deep tank, W.T. Bulkheads & tunnel.

Second deck in way of boiler casing.

Fore & aft peaks & fore end strengthening.

Pumping arrangement.

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

1st Bower 36-3-11 : K.H. : 5235 :  $1\frac{3}{4}/28$ .  
2nd " 35-3-11 : K.H. : 5225 :  $1\frac{3}{4}/28$ .  
3rd " 36-1-17 : K.H. : 5233 :  $1\frac{3}{4}/28$ .

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 29.25 ft., R.Q.D. ☒ ft., Bridge 24.25 ft., Forecastle 37.5 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 (Stl)

Official No. 149,690 : Signal Letters \_\_\_\_\_ Is bottom of Vessel coated with cement ☒ if not give particulars of composition In Boiler room tank all covered with cement, cement fillets elsewhere.

#### PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	132.5	500	Fore peak tank,	16.0	145
Double bottom, under Engines and Boilers,	22.5	109	After peak tank,	35.0	950
Double bottom, if under Engines only,	17.5		Deep tank, aft,		
Double bottom, if under Boilers only, Dry Tank, W.T. Comp	178.5	628	Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
			(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. 3213.

Date 23rd March 1924.

Dates of Surveys held while building

(1924) Nov. 4-8-9-11-15-14-22-23-29-30 Dec. 5-8-9-13-19-23-24-29 (1928) Jan. 5-11-16-21-24 Feb. 1-6-8-11-16-14-21-23-24-24  
28 Mar. 2-6-9-12-14-16-22-26-28-30 April 3-5-9-11-12-14-19-26 May 1-3-8-10-11-18-22-25-28-30 July 6-12 Sept 4.

Total No. of Visits 65