

STEEL STEAMER or MOTORSHIP.

Received at London Office

27 JUL 1927

Date of completion of report

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

Survey held at

From

Date First Survey

Port of

No. 46872

On the

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

Single Screw Steamer "THE DUKE"

Machinery Aft

State Type

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

Free Scantling

State Type of Erections

R.Q.D. & Fele

TONNAGE under Tonnage Deck

561.88

CLASS +100A.1.

State if with freeboard as condition of Class

No

Built at

From

Do. of space or spaces between Tonnage Deck 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

190.0

Launched 28th June 27 Yard No. 400

Builders Ailsa S.B. Co. Ltd.

Total

561.88

Breadth (greatest moulded)

B

30.0

Owners J. Hay & Sons Ltd.

Gross Tonnage

820.08

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

D

14.16

Managers

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

Register Tonnage

387.46

1st Longitudinal Number (L x D) = 2691

2nd Numeral L x (B + D) = 8391

Residence

Glasgow

Port of Registry

Glasgow

If surveyed while building, afloat, or in dry dock

Building afloat & in dry dock

REGISTERED DIMENSIONS.

FEET.

Length

190.2

Breadth

30.1

Depth

12.1

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

11.66

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

13.42

Do. Long Bridge to top of keel

10.46

Draught Moulded

13-5 1/4

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	22		Bracket Floors, Frame	1	
" " from 1/2 length to Collision bulkhead	22		" " Reversed Frame	1	
" " in peaks	22		" " Vertical Struts	1	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	30 x 38	
Frame Amidships, Angle, E or F	6 3 32	appd 5 1/2 x 3 x 32	" " top Angles	3 3 34	
" " Extends up to	Upper Dk		" " bottom Angles	3 3 38	
Reversed Frame Amidships, Angle	6 3 32		Side Girders, No. each side and thickness	10-28	
" " Extends up to	R.Q. Dk		Margin Plate depth (excl. of flange) and thickness	27 x 32	
Depth of Framing Girder	6		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	3 3 31	
Frames in Uppermost Continuous 'tween Decks, Angle, E or F			" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	3 3 31	
" " Second 'tween Decks, Angle, E or F			" " Gussets, spacing and scantling abaft 1/2 len. from stem	none	
" " Third " " " "			" " Gussets, spacing and scantling forward 1/2 len. from stem		
Framing in Peaks, Angle, E or F	5 3 37		Tank Side Brackets, height above base line at toe of Frame and thickness	36 1/2	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4, 5/4		INNER BOTTOM PLATING.		
State if Frame Joggled	Yes		Breadth and thickness of Middle Line Strake	40 x 34	
FRAMING ARRANGEMENTS (Sec. 7), state system and particulars	as per Appd Plan.		Thickness of remainder in Holds	30	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	do.		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	
ANGLE BOTTOM. IN BOILER ROOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds	19 1/4 x 41		Uppermost Continuous Deck, amidships in Wells, Angle, E or F	6 3 32	
Height of Brackets at side above base line at toe of frame	none		" " in way of Bridge, Angle, E or F	6 3 32	
Middle Line Keelson, on Floors, Angles, E or F	3 3 42		Spacing	22	
" " Through Plate or Intercoastal Plate	49		Second Deck, amidships, Angle, E or F		
" " Foundation Plate on Floors	32 x 49		Spacing		
" " Flat Plate Keel Angles	3 1/2 3 1/2 42		Third Deck, amidships, Angle, E or F		
Side Keelsons, No. each side	one		Spacing		
" " thickness of Intercoastal Plate	41		Fourth Deck, amidships, Angle, E or F		
" " Angle	7 3 1/2 50		Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle, E or F		
Solid Floors, thickness and spacing	28 x 22		Spacing		
" " Are Frame and Reversed Frame joggled?	Yes		Bridge Deck, Angle, E or F	5 3 34	
Bracket Floors, breadth and thickness at middle line			Spacing	44	
" " breadth and thickness at margin plate			Forecastle Deck, Angle, E or F	6 3 32 BA	
			Spacing	44	

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.
PILLARS , No. of Rows.....	<i>one where fitter</i>		Stringer Plate, breadth and thickness in way of Bridge		
„ in 'tween Decks, Size and Spacing.....	✓		Thickness of Plating abreast Deck openings in way of Wells		
„ „ „ „ „	✓		Thickness of Plating abreast Deck openings in way of Bridge		
„ in Holds „ „	<i>Brill pillars + arch bks from ship side</i>	✓	Thickness of Plating within line of openings...		
„ „ „ „ „			If Sheathed, material and thickness		
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing.....	✓		Stringer Plate, breadth and thickness.....		
Plating, thickness of	✓		If Plated, state thickness.....		
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....		
Stringer Plate, breadth and thickness in Wells	<i>6 1/2 x 48</i>	✓	If Plated, state thickness		
„ „ „ „ in way of Bridge	<i>R.O.D. 59 x 38</i>	✓	Poop Deck.		
„ Angle in Wells	<i>3 1/2 3 1/2 48</i>	✓	Stringer Plate, breadth and thickness		
Thickness of Plating abreast Deck openings in way of Wells	<i>48 (stringer)</i>	✓	Plating, Sheathing, material and thickness ..		
Thickness of Plating abreast Deck openings in way of Bridge <i>R.O.D.</i>	<i>38 (stringer)</i>	✓	Bridge Deck.		
Thickness of Plating within line of openings...	<i>30</i>	✓	Stringer Plate, breadth and thickness.....	<i>31 x 26</i>	✓
If Sheathed, material and thickness	✓		Plating, Sheathing, material and thickness ..	<i>Ties, 2 1/2 P.P.</i>	✓
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	✓		Stringer Plate, breadth and thickness.....	<i>36 x 26</i>	
			Plating, Sheathing, material and thickness ..	<i>26 ties 3 P.P.</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.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.	
FLAT PLATE KEEL	40	.49	.43	.43	.47 app	double	3/4	3/4	treble	3/4	2 5/8	stagger
" DBLG. (if any)		✓	✓	✓								
BOTTOM PLATING, No. of Strakes	16	.37	.37	.33		double	3/4	3/4	double	3/4	2 5/8	lapped
BILGE PLATING, No. of Strakes	✓	.37	.33	.33		"	"	"	"	"	"	"
SIDE PLATING, No. of Strakes	0	.37	.33	.33		"	"	"	"	"	"	"
UPPER DECK, Sheer- strake in Wells.....	44 1/2	.48	.33	✓		"	"	"	treble	"	"	"
UPPER DECK, Sheer- strake in Bridge ...	44 1/2	.41	✓	.33		"	"	"	double	"	"	"
STRAKE BELOW Sheer- strake in Wells.....	51	.44	.33	✓	app. #9	"	"	"	treble double	"	"	"
STRAKE BELOW Sheer- strake in Bridge ...	57	.37	✓	.33		"	"	"	double	"	"	"
BRIDGE R.A.S. POOR SIDE PLATING	✓	.26	✓	✓		"	"	"	(none)	✓	✓	✓
R.A.S. SHEERSTRAKE BRIDGE SIDE PLATING ...	47	.42	✓	.33		double	3/4	3 1/4	treble	3/4	2 5/8	lapped
FOREC'TLE SIDE PLATING			.26			single	3/4	3 1/4	double	"	"	"

WATERTIGHT BULKHEADS.

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

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHD, Upper tween decks					
" " Second "					
" " Third "					
" " Holds	30-40	7x3	32 1/2 @ 30"	✓	✓
COLLISION " (in Hold)	30-38	6x3	36 1/2 @ 24"	✓	✓
AFTER PEAK " "	30-50	6 1/2 x 3	44 @ 24"	✓	✓

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar		Flat plate Keel		
STEM	Forging	$6\frac{1}{2} \times 1\frac{1}{2}$	A. Kern & Sons	
STERN FRAME {	Propeller Post	"	6×4	Emerson Walker &
	Rudder	"	$5\frac{3}{4} \times 4$	Thompson Bros.
RUDDER—A × D		111		
Speed of Vessel		10 knots	Emerson Walker &	
RUDDER mainpiece at head	Forging	$5\frac{1}{4}$	Thompson Bros.	
" " heel		4"		
" " how constructed		Built: Lino Shunk	Keyed on	
" " double or single plate		Single		
" " coupling, vertical or horizontal		Horizontal		

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

D. Colville & Sons Ltd., Steel Co of Scotland.

Has the Steel been tested as required by the Rules?

Yes.

Cero

EQUIPMENT No. 9228												LETTER K	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.			
42565	1st Bower ...	19	2	12	stockless			20	8	1	21	19	Britannic (P.S. H&W)	-	Credly Heath; 6/3/27. S.C. Paul
42566	2nd „ ...	19	2	0	"			20	6	1	0	19.	"	"	"
42567	3rd „ ...	16	1	14	"			17	14	0	7	16 1/4	"	R. Sykes & Son Ltd	4/3/27 "
	Collective weight.	55	1	26								54 1/4			
42733	Stream	5	1	9	1	1	26	7	14	0	7	5 1/4	Ordinary Jopes W.S.	Henry Reece	" 25/4/27 "

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.
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
40166	210	1 7/8	31.0	46.5	186.2	7	186.5		210	1 7/8	Studlink H. Reece		Credly Heath; 25/4/27 S.C. Paul	TOWLINE ...	90	3	18	90	3
														HAWSERS & WARPS	90	6	manila	90	6
															90	5		90	5
Iron Stream Steel Wire	60	3/4		22					60	3/4									

Steering Gear, Steam	5½ x 5½ by T. Reid & Sons Paisley	Steering Gear, Hand	Relieving tackle to Capstan								
Boats	2 life boats 17-6 x 6-1½ x 2-5 1 dingy 13 x 5 x 1-9	Steering Chains, Size and Test	13/16 T-8-0-0	Windlass	skan 8½ x 9 by Emerson Walker.						
Ceiling in Holds, thickness and material	2½ W.P.	Cargo Battens, thickness, material and spacing	2" W.P. @ 9"								
Cargo Hatchways.—(Upper Deck)	Steel Coverings N°1 40% N°2 39" above deck	Thickness of Hatches	2 5/8"								
Size of No. 1 Hatchway (Forward)	35'-8" x 16'-0"	No. 2	36'-8" x 16'-0"	No. 3	✓	No. 4	✓	No. 5	—	No. 6	✓
Number of Shifting Beams and/or Fore and Afters	6 wireless hatch										
AILSA SHIPBUILDING CO., LIMITED											
g. H. Stowell Secretary.											
Builder's Signature											

GENERAL DECLARATION	<p>The materials & workmanship are good. The vessel has been built in accordance with the approved plans & instructions, the Secretary's letters of various dates & in conformity with the Rules for the class contemplated.</p> <p>The tank decks & bulkheads have been tested in accordance with the Rules. The freeboard has been verified & the freeboard marks cut in on the vessel's sides</p>
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The amount of Entry Fee £ 4 : 0 : 0 Special Survey Fee.... £ 82 : 0 : 0 Travelling Expenses, if any £ 4 : 0 : 0	Fees applied for, 26 JUL 1927 Received by me, <i>Geo. Webster</i> 3.8.27	I am of opinion the Vessel should be Classed + 100. A.I. Signature <i>Geo. Webster</i> Surveyor to Lloyd's Register of Shipping.
State whether the Vessel has been built under Special Survey <i>H&M</i>	Certificate to be sent to GLASGOW Date of issue 4/8/27	

Committee's Minute	GLASGOW 26 JUL 1927
Character assigned	+ 100 A.I.
	7.27 <i>Lloyds Arch</i> + LMC 7.27

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.)

Plans:-

Midship Section

Profile & Deck

Stem Frame & Rudder

Pumping Plan

Stiffness on Gunken 800

Strengthening of Bottom forward

Engine Seating

Plan of Midship Section as built and also framing reports enclosed

Please return plans for dealing with sister vessel 401

The material of construction of the vessel is in accordance with the requirements of the Rules for the construction of steel vessels of the class of 100 tons and upwards. The hull is built in accordance with the requirements of the Rules for the construction of steel vessels of the class of 100 tons and upwards. The hull is built in accordance with the requirements of the Rules for the construction of steel vessels of the class of 100 tons and upwards.

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

1st Bower 12-1-0; M.B.; 2769; 27/4/26.
2nd " 12-1-4; K.H.; 4632; 16/6/26.
3rd " 10-0-9; M.B.; 2773; 27/4/26.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. 108.7 ft., Bridge 9.2 ft., Forecastle 25.0 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) 1 Deck (Stl). Well Deck.

Official No. 148937; Signal Letters

Is bottom of Vessel coated with cement ☒ Yes if not ☐ No

particulars of composition

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	SALTY Water Capacity. Tons.	Where Fitted.	*Length. Feet.	SALTY Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,	21.5	58
Double bottom, under Engines and Boilers,			After peak tank,	9.5	30
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	117.33	177	Other tanks, if fitted,		
	Total capacity of double bottom	177	(If necessary, furnish further information by sketch.)		
	* The wells are not to be included in the lengths of the tanks.				
	Total length of double bottom = 117.33 ft				

Order for Special Survey No. 6799

Date 14.12.26.

Dates of Surveys held while building

1927 Jan 31 Feb 18 24 Mar 4 15 24 Apr 1 6 12 14 21 28 May 6 10 12 Jun 2 6 10 13 16 28 July 4 5 8 11

Total No. of Visits 2