

## STEEL STEAMER or MOTORSHIP

3 JUN 1931

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 June 2<sup>nd</sup> 1931.Port of Aberdeen.No. 16613.Survey held at Aberdeen.Date First Survey October 16<sup>th</sup> 1930Last Survey May 30<sup>th</sup> 1931.On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) NO.Single Screw - St Sunniva.

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

Complete Superstructure without Tonnage opening. State Type of Erections BOAT DECK.TONNAGE under Tonnage Deck... 760.73.CLASS \* 100. A.1.State if with freeboard as condition of Class Yes.Built at Aberdeen.

Do. of space or space between Tonnage Deck and Upper Deck

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)

FEET.

Launched April 2<sup>nd</sup> 1931. Yard No. 723.Total 760.73.

LENGTH B.P. ON UPPER DECK.

L 236.0.

Breadth (greatest moulded)

B 35.0.Gross Tonnage 1367.64.

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

D 23.10.Register Tonnage 668.53.1st Longitudinal Number (L x D) = 5664.2nd Numeral L x (B + D) = 13924.L.D. 6.4 3/4.

## REGISTERED DIMENSIONS.

FEET.

Length 252.6.

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

L.D. 13.4 3/4.Breadth 35.25.

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

9.9.Depth 15.5.

Draught Moulded

14.2 1/2.Residence Aberdeen.Port of Registry Aberdeen.

If surveyed while building, afloat, or in dry dock

Just Entry.

## 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 throughout	24"		Bracket Floors, Frames in Tank	3" 3" 33"	+ 38" in B.S.
" " from 1/2 length to Collision bulkhead			Double forward of 1/2 L.		
" " in peaks	24"		Reversed Frames in Tank	3" 3" 33"	+ 48" in B.S.
Stem Cant, Frames + Beams	5" 3" 30"	Angled.	Double in Engine Space and under Thrust		
SIDE FRAMING.			Vertical Struts		
in Holds + Tunnel Reers.	5 1/2" 3" 38"	+ 6 3/4" 40" (100-111)	Centre Girder, depth and thickness amidships	12" x 44" x 36"	at ends.
Frames Amidships, Angle, E or F	6 1/2" 3" 37"		" " in Engine Space + 44" in Boiler Space		
" " in Engine Space	6 1/2" 3" 37"		" " top Angle	3" 3" 41"	6.40
" " Extends up to Upper D. (alternately omitted 15' 52" 81" 93" in U.T.D.)	6 1/2" 3" 37"		Double in Eng. Space, under Thrust + 30" of 1/2 L.		
Reversed Frame Amidships, Angle in B.S.	3" 3" 48"		" " bottom Angle	4" 3 1/2" 45"	in E.S.
" " Extends up to Between Bunker sides			" " Vertical Angles (Double in E & B. Space)	3" x 3" 38"	2 1/2" x 3 1/2" in B.S.
Depth of Framing Girder, as given	5 1/2" + 6 1/2"		Side Girders, No. each side and thickness	One 33" x 48" in B.S.	
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	as above.		" " Angles (top + bottom)	3" x 3" 33" Vertical 2 1/2" x 3 1/2"	2 1/2" x 3 1/2"
" " Second 'tween Decks, Angle, E or F	as above.		Margin Plate depth (excl. of flange) and thickness	21" x 42" 6" 39"	+ 42" in E.S.
" " Boat 'tween Dks	4 1/2" 3" 32"	24" apart.	" " Vertical Angle to Tank side	3" 3" 33"	
Third " " "			" " Bracket, abut + len. from stem		
Framing in Peaks, Angle or F	5 1/2" 3" 38"		" " Vertical Angle to Tank side	3" 3" 35"	+ 3" x 3" 37"
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4" rivets 7" dia. aft of 1/2 L. forward.		" " Bracket forward + len. from stem		
State if Frame Joggled	Yes.		" " Gaskets, spacing and scantling	Shell angle 3" x 3" 41"	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	As per approved Plans.		" " Gaskets, spacing and scantling	forward + len. from stem	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	As per approved Plans.		Tank Side Brackets, height above base line at toe of Frame and thickness	50" x 35" 37" in E.S.	+ 38" in B.S.
SINGLE BOTTOM.			INNER BOTTOM PLATING.		
Floors, Depth and thickness at mid-line in Holds	22" x 48" + 33" at ends.		Breadth and thickness of Middle Line Strake	44 1/2" x 39" 6" 34"	
" " in Boiler Space	in way of Bunkers 38"		Thickness of remainder in Holds	34" 6" 32" + 39" in E.S.	
Height of Brackets at side above base line at toe of frame	50"		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?	3/4" under Engine. As approved.	
Middle Line Keelson, on Floors, Angle, E or F	12" x 3 1/2" x 60"	Double.	BEAMS.		
" " Through Plate on Intercoastal Plate	56"		Uppermost Continuous Deck, amidships	5" x 3" 30" 6" 5" x 3" 30" A. 30"	
" " Foundation Plate on Floors			" " in Way of Bridge, Angle, E or F	5" 3" 30"	
" " Vertical Flat Plate Keel Angles	3 1/2" 3 1/2" 56"	Double.	" " Spacing	24"	
Side Keelsons, No. each side	one.		" " in way Casings		
" " thickness of Intercoastal Plate	18"		Second Deck, amidships, Angle, E or F	5" 3" 30"	
" " Angles	16" 3 1/2" 52"		" " remainder	5" 3" 32"	6.40 as appd.
" " angle to shell	3" 3" 38"		" " Spacing	24"	
DOUBLE BOTTOM.			Strong Beam in Casings	10" 3 1/2" 52"	
Solid Floors, thickness and spacing	42" x 33" and 22" x 48" in B.S.		Third Deck, amidships, Angle, E or F	6" 3" 46"	6" 5" x 3" 32" and as approved.
" " Are Frame and Reversed Frame joggled?	Yes.		" " Spacing	24"	
Bracket Floors, breadth and thickness at middle line	41"		Fourth Deck, amidships, Angle, E or F		
" " breadth and thickness at margin plate			" " Spacing		
			Boat Poop Deck, Angle, E or F	5" 3" 36" A. Forward.	
			" " Spacing	4" 2 1/2" 30"	Aft.
			Bridge Deck, Angle, E or F		
			" " Spacing		
			Forecastle Deck, Angle, E or F		
			" " Spacing		

W20-0058(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</b> , No. of Rows.....	As per approved Plans.					angle.			
upper						Stringer Plate, breadth and thickness in way of Bridge.....			4" 3" 36" 6" 24"
in 'tween Decks, Size and Spacing.....	2 1/2" x 3" spaced as app'd.					Thickness of Plating abreast Deck openings in way of Wells.....			Shell angles 3 1/2" x 3" x 34"
" " Lower " " "	2 1/2" 3" x 4" do.					Thickness of Plating abreast Deck openings in way of Bridge.....			30" x 28" as app'd.
" in Hold for'd. " "	3 1/2" x 5" do.					Thickness of Plating within line of openings.....			36" x 34" as app'd.
" in Engine Room. " "	4 dia. (2 pol + 2 carb.)					If Sheathed, material and thickness.....			5" x 3 1/2" Pitch Pine.
<del>Centre Line Bulkhead.</del>						<b>LOWER Third Deck.</b>			
<del>Stiffeners and Spacing.....</del>	✓ ✓ ✓					Stringer Plate, breadth and thickness.....			42" 6" 27" x 24" 3" 34"
<del>Plating, thickness of.....</del>	✓ ✓ ✓					If Plated, state thickness.....			10" x 24" Sheathing 5" x 3 1/2" Pitch Pine.
<b>STRINGERS AND DECKS.</b>						<b>Fourth Deck.</b>			
Uppermost Continuous Deck.						Panling Stringer			
Stringer Plate, breadth and thickness in Wells.....	45" 6" 31" x 32" throughout.					Stringer Plate, breadth and thickness.....			9 1/2" x 32" 4" 3" 32"
" " " " in way of Bridge.....	✓ ✓ ✓					If Plated, state thickness.....			3" 3" 32"
" Angle in Wells.....	4" 3 1/2" 38" 6" 34"					<b>Peep Deck</b>			
Thickness of Plating abreast Deck openings in way of Wells.....	28" 6" 26"					Stringer Plate, breadth and thickness.....			✓ ✓ ✓
Thickness of Plating abreast Deck openings in way of Bridge.....	✓ ✓ ✓					Plating, Sheathing, material and thickness.....			✓ ✓ ✓
Thickness of Plating within line of openings.....	26"					<b>SOAT Bridge Deck.</b>			
If Sheathed, material and thickness.....	5" x 3" Pitch Pine.					Stringer Plate, breadth and thickness.....			24" x 25" + 45" x 30" fore end.
<b>Second Deck.</b>						Plating, Sheathing, material and thickness.....			20" x 30" above Casings. 5" x 2 1/2" P.P. 6" x 2 1/2" x 28" Channel.
Stringer Plate, breadth and thickness in Wells.....	42" 6" 27" x 32" in way Casings 36" 6" 24" remainder.					<b>Forecastle Deck.</b>			
						Stringer Plate, breadth and thickness.....			✓ ✓ ✓
						Plating, Sheathing, material and thickness.....			✓ ✓ ✓

## SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	UPPER 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 .....	Rivets in Keel and Stem 1" diam. 5" apart.												
„ <del>Base</del> (if any) .....	A. 53	46	46	42		15" Double.	3/4			3 R 6 2 R.	3/4	2 5/8	Lapped.
BOTTOM PLATING, No. of Strakes ..... 2.....	B. 66	43	43	40		" "	"			" " "	"	"	"
BILGE PLATING, No. of Strakes ..... 1.....	C. 60	"	"	"		" "	"			" " "	"	"	"
SIDE PLATING, No. of Strakes ..... 3.....	D. 59	"	40	"		" "	"			" " "	"	"	"
UPPER DECK, Sheer-strake in Wells.....	E. 50	"	"	"		" "	"			" " "	"	"	"
UPPER DECK, Sheer-strake in Bridge.....	F. 59	"	"	"		" "	"			" " "	"	"	"
UPPER DECK, Sheer-strake in Wells.....	G. 50	52	48	48	43 1/2 - 40 approved. 56 at ends of Bridge 56 Doubling (75-83)	" "	"			" " "	"	"	"
UPPER DECK, Sheer-strake in Bridge.....	H. 48	44	40	40		3" Single Doubling at Break.	"			" " "	"	"	"
UPPER DECK, Sheer-strake in Bridge.....													
STRAKE BELOW SHEER-strake in Wells.....	H. 50	44	40	40		5" Double.	3/4			3 R 6 2 R.	3/4	2 5/8	Lapped.
STRAKE BELOW SHEER-strake in Bridge.....	K. 42 1/2	32				2 1/2" Single Doubling at Break	5/8						
PEEP SIDE PLATING .....	L. 45 1/2	32								2 R.	5/8	2 1/2	Lapped.
BRIDGE SIDE PLATING .....	EDGES. Seven rivets in each row (excluding frame) 2 Rivets in frame.												
FORECASTLE SIDE PLATING .....													

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—									
Extending to Upper Deck (Sec. 3 c) <u>One</u> (collision 106-110)									
Deck next below <u>Seven</u>									
As per Rule 4 as approved. <u>Eight</u>									
	Plating Thickness.	STIFFENERS.							
		VERTICAL.				HORIZONTAL.			
		Scantlings.		Spacing.		Scantlings.		Spacing.	
<b>MIDSHIP BULKHEAD</b> , Upper 'tween decks.....	7 1/2	26-28-34	4 x 3 x 30-36-53 x 34	30	2" D x L D x	7 1/2	26-28-34	4 x 3 x 30-36-53 x 34	30
" " <del>Second</del> " " "	5 1/2	26-28-41	3 x 2 1/2 x 25 A. 7 x 3 x 42 B A.	36	12 CHANNEL AT 2" D x	5 1/2	26-28-41	3 x 2 1/2 x 25 A. 7 x 3 x 42 B A.	36
" " <del>Third</del> " " "	7 1/2	26-30-41	4 x 3 x 36 A. 5 x 3 x 40 A.	30 ETC.	S. BOX AT L. D x	7 1/2	26-30-41	4 x 3 x 36 A. 5 x 3 x 40 A.	30 ETC.
" " <del>Holds</del> .....	8 1/2	26-28-34	4 x 3 x 34 A. 5 x 3 x 30 B A.	30	S. BOX AT L. D x	8 1/2	26-28-34	4 x 3 x 34 A. 5 x 3 x 30 B A.	30
<b>COLLISION</b> " (in Hold).....	10 1/2	29-31-33-45	6 x 3 x 38 B A. 7 x 3 x 42 B A.	24	S. BOX AT L. D x	10 1/2	29-31-33-45	6 x 3 x 38 B A. 7 x 3 x 42 B A.	24
<b>AFTER PEAK</b> " ".....	7	26-28-34	3 x 3 x 34 A. 5 x 3 x 34 A.	30		7	26-28-34	3 x 3 x 34 A. 5 x 3 x 34 A.	30

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
<b>KEEL</b> , Bar.....	Recessed Steel Bar	8 x 2 1/2	Bradford & Blyth.	
<b>STEM</b> .....	"	8 x 2 1/2	"	
<b>STERN FRAME</b> { Propeller Post.....	Steel	7 x 6	T. S. Fowler & Sons Ltd.	
{ Rudder ".....	"	7 x 6	Sunderland.	
<b>RUDDER—A x D</b> .....		224		
<b>Speed of Vessel</b> .....		Under 14 knots.		
<b>RUDDER</b> mainpiece at head.....		7 1/2 dia. T. S. Fowler & Sons Ltd.		
" " heel.....		9 1/2 6 6 x 6 (steel)		
" how constructed.....		Steel = forged Dupot Steel frame = forged iron		
" double or single plate coupling, vertical or horizontal.....		3 1/2 Double.		

<b>STEEL.</b>	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture).									
	D. Colvills & Sons Ltd. The Steel Co. of Scotland Ltd. The Consett Iron Co. Ltd. Dorman Long & Co. Ltd. Pease & Partners Ltd. Consett Iron Co. Ltd. Lanarkshire Co. Ltd. Frodingham Iron & Steel Co. Ltd.									
	Has the Steel been tested as required by the Rules? Yes.									







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.)

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

1st Bower 17.0.23 Cwt. A. Bennett. 2848. 23.5.30. Antwerp.  
2nd „ 17.3.5 Cwt. J. Quast. 876. 31.5.29. Düsseldorf.  
3rd „ 17.1.15 Cwt. A. Bennett. 2758. 28.4.30. Antwerp.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Peep ☒ ft., R.Q.P. 29.4 ft., FORWARD Bridge 77.10 ft., Forecastle ☒ ft.  
(in feet and tenths). When the Peep 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. D<sup>MS</sup> (U. STEEL - W.S.) (2<sup>ND</sup> D<sup>MS</sup> PART STEEL - W.S.)  
+ LOWER D<sup>MS</sup> CLEAR E.B - W.S.

Official No. 162280. : Signal Letters

Is bottom of Vessel coated with cement Yes. if not give

particulars of composition Cemented throughout over Rivets.

#### PARTICULARS OF WATER BALLAST.—

ARTICULARS OF WATER.			ARTICULARS OF WATER.				
Where Fitted.			*Length.	Water Capacity.	Where Fitted.	*Length.	Water Capacity.
			Feet.	Tons.		Feet.	Tons.
Double bottom, aft,			36.0.	30.	Fore peak tank,	✓	✓
<del>Double bottom, under Engines and Boilers,</del>			✓	✓	After peak tank,	✓	✓
Double bottom, if under Engines only,			20.0.	31.	Deep tank, aft,	✓	✓
<del>Double bottom, if under Boilers only,</del>			✓	✓	Deep tank, forward,	✓	✓
Double bottom, forward,			70.0.	78.	Other tanks, if fitted,	✓	✓
No 1. 36.0 26 TONS			{	Total capacity of double bottom	(If necessary, furnish further information by sketch.)		
" 2. 26.0 38 "							
" 3. 8.0 14 "							
no 2			* The wells are not to be included in the lengths of the tanks.				

Order for Special Survey No. 1808

Date 6. 10. 30.

Dates of Surveys held while building

1930. October 16. 31. November 3. 5. 10. 12. 19. 23. December 1. 8. 17. 23. 30.  
1931. January 6. 12. 13. 14. 15. 22. 26. 29. February 9. 11. 13. 16. 17. 18. 20. 23. 25. 27.  
March 2. 11. 12. 18. 19. 24. 26. April 2. 10. 13. 22. 24. May 1. 5. 13. 14. 15. 18. 25. 30.  
June.

Total No. of Visits 51.