

STEEL STEAMER or MOTORSHIP.

Received at London Office

12 JUL 1928

State if Report has been sent on the Freeboard of the Vessel ☒State if Report is sent on the Machinery of the Vessel ☒

Date of completion of report

12-7-28

Port of

Dumdee

No.

8650

Survey held at

Dumdee

Date First Survey

12-12-27

Last Survey

10-7-

1928

On the

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

Single screw Steamer "WATFORD"

State Type

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

FULL SCANTLING.

State Type of Erections P. B. & F.

TONNAGE under Tonnage Deck

4993.14

CLASS +100 A.1.

State if with freeboard as condition of Class

No

Built at

Dumdee

Launched

3-7-28

Yard No. 322

Builders

The Caledonian S & E. Co. Ltd.

Owners

(Watts, Watts & Co. Ltd. Glasgow)

Managers

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

Residence

London

Port of Registry

If surveyed while building, afloat, or in dry dock

Building

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Total

Gross Tonnage

Register Tonnage

REGISTERED DIMENSIONS.

FEET.

Length

405.8

Breadth

54.2

Depth

27.9

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

L 404'-11"

Breadth (greatest moulded)

B 54

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

D 30'-3"

1st Longitudinal Number (L x D)

= 12248.8

2nd Numeral L x (B + D)

= 34115

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

24.89

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

13.38

Do. Long Bridge to top of keel

10.64

Draught Moulded

24'-8 3/8"

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	28		Bracket Floors, Frame	6 3/2 48	O.R.
" " from 1/2 length to Collision bulkhead	27		" " Reversed Frame	6 3 40	O.R.
" " in peaks	24		" " Vertical Struts	9 5/2 x 3 1/2 x 38	E
SIDE FRAMING.			Centre Girder, depth and thickness amidships	3'-6 1/2 x 53	
Frame Amidships, Angle, E or F	12 x 3 1/2 x 5 1/2 x 60		" " top Angles	3 1/2 x 3 x 50	double
" " Extends up to	10 3 1/2 56	+ 10 O.R.	" " bottom Angles	4 x 4 x 50	double
" " Reversed Frame Amidships, Angle	10 3 1/2 56		Side Girders, No. each side and thickness	on each side	59
" " Extends up to	10 3 1/2 56		Margin Plate depth (excl. of flange) and thickness	5 1/2 x 50	
Depth of Framing Girder	12		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	6 x 6 x 47	14-7/8 Riv.
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	12		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	6 x 6 x 47	21-7/8 Riv.
" " Second 'tween Decks, Angle, E or F	12		" " Gussets, spacing and scantling abaft 1/2 len. from stem	6 x 3 x 39	6-7/8
" " Third " " " "	12		" " Gussets, spacing and scantling forward 1/2 len. from stem	12 x 3 1/2 x 50	channel
Framing in Peaks, Angle, E or F	1/2 3 39		Tank Side Brackets, height above base line at toe of Frame and thickness	7-6 x 47	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 - 6 1/4		INNER BOTTOM PLATING.		
State if Frame Joggled	no		Breadth and thickness of Middle Line Strake	68 x 50	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	Dep. from 9" - 0.8" from 9" - 1.5" from 15" - 1.5" from		Thickness of remainder in Holds	42	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	6 6 39		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	39		Uppermost Continuous Deck, amidships in Wells, Angle, E or F	7 x 3 x 33	
Height of Brackets at side above base line at toe of frame	39		" " in way of Bridge, Angle, E or F	7 x 3 x 40	
Middle Line Keelson, on Floors, Angles, E or F	39		" " Spacing	28"	
" " Through Plate or Intercoastal Plate	39		Second Deck, amidships, Angle, E or F	7 x 3 x 33	
" " Foundation Plate on Floors	39		" " Spacing	28"	
" " Flat Plate Keel Angles	39		Third Deck, amidships, Angle, E or F	7 x 3 x 33	
Side Keelsons, No. each side	39		" " Spacing	28"	
" " thickness of Intercoastal Plate	39		Fourth Deck, amidships, Angle, E or F	7 x 3 x 33	
" " Angles	39		" " Spacing	28"	
DOUBLE BOTTOM.			Forecastle Deck, Angle, E or F	7 x 3 x 33	
Solid Floors, thickness and spacing	39		" " Spacing	28"	
" " Are Frame and Reversed Frame joggled?	39				
Bracket Floors, breadth and thickness at middle line	39				
" " breadth and thickness at margin plate	39				

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>Equivalent to 3 rows</i>											
<i>See app. Plan.</i>											
in 'tween Decks, Size and Spacing.....					<i>Hatch coaming, Houses</i>						
" " " " "					<i>girders & strong beams</i>						
" " " " "					<i>at Hatch ends.</i>						
in Holds " "					<i>One girder pillar in</i>						
" " " " "					<i>way of bridge</i>						
Centre Line Bulkhead.											
Stiffeners and Spacing.....	12	3 1/2	46	B.A.							
		56" spacing									
Plating, thickness of		30									
STRINGERS AND DECKS.											
Uppermost Continuous Deck.											
Stringer Plate, breadth and thickness in Wells	72"	x	99								
	55"	x	71								
" " " " in way of Bridge	72"	x	50								
" " " " " Angle in Wells	6	x	6	x	92"						
Thickness of Plating abreast Deck openings) in way of Wells	99	-	75								
Thickness of Plating abreast Deck openings) in way of Bridge	34										
Thickness of Plating within line of openings...	33				<i>in bridge space</i>						
	42				<i>in wells</i>						
If Sheathed, material and thickness	✓										
Second Deck.											
Stringer Plate, breadth and thickness in Wells...	✓										
Stringer Plate, breadth and thickness in way of Bridge											
Thickness of Plating abreast Deck openings) in way of Wells											
Thickness of Plating abreast Deck openings) in way of Bridge											
Thickness of Plating within line of openings...											
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	41								
Plating, Sheathing, material and thickness ...	34	x	5 x 2 1/2							<i>Part sheathed. P.P.</i>	
Bridge Deck.											
Stringer Plate, breadth and thickness.....	60"	x	58								
Plating, Sheathing, material and thickness ...	53				<i>abreast</i>						
	36				<i>within</i>						
Forecastle Deck.											
Stringer Plate, breadth and thickness	36"	x	41								
Plating, Sheathing, material and thickness ...	38				<i>5 x 2 1/2</i>					<i>Part Sheathed P.P.</i>	

SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.					
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?		NO. OF ROWS OF RIVETS.		RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.		SINGLE OR DOUBLE.	RIVETS.	Diam.	Spacing cr. to cr.	Diam.	Spacing cr. to cr.		
FLAT PLATE KEEL	49 1/2	78	68	68		Double	7/8	3 1/2	Quadr.	1	3 1/2	Strapped	
DBLG. (if any)													
BOTTOM PLATING, No. of Strakes		60	46	46			7/8	3 1/2	Trible	7/8	3 1/8	Lapped	
BILGE PLATING, No. of Strakes		60	44	44			7/8	3 1/2	"	7/8	3 1/8	"	
SIDE PLATING, No. of Strakes		60	44	44			7/8	3 1/2	"	7/8	3 1/8	"	
UPPER DECK, Sheer-strake in Wells	65	92	44	44			1	4	Quadr. & Quad.	1	4 1/2	"	
DECK, Sheer-bridge		60					7/8	3 1/2	Trible	7/8	3 1/8	"	
ST. Sheer-st. ells	67 1/2	75	44	44			1	4	Quadr. & Trible	7/8	4"-3 1/2"	"	
STRAKE LOW Sheer-strake in Bridge		60					7/8	3 1/2	Trible	7/8	3 1/8	"	
POOP SIDE PLATING		38				Single	3/4	3	Single	3/4	2 3/8	"	
BRIDGE SIDE PLATING		58				Double	7/8	3 1/2	Trible	7/8	3 1/8	"	
FORECASTLE SIDE PLATING		41				Single	3/4	3	Single	3/4	2 3/8	"	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—					
Extending to Upper Deck (Sec. 3 c)	6				
Deck next below	✓				
As per Rule	6				
	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks					
" " Second "					
" " Third "					
" " Holds	✓ 46	8 x 3 x 40 B 2-5	1, same box beam.		
COLLISION (in Hold)	✓ 51	8 x 3 x 52 B 2-0	Flat.		
AFTER PEAK	✓ 49	6 x 3 x 38 B 2-0			

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	✓		Scottish S. & Co.	✓
STEM	R.S.B.	9 1/2 x 2 3/8	✓	
STERN FRAME	Propeller Post	Forging 10 1/2 x 7 7/8	Ken & Co.	✓
	Rudder	" 9 1/2 x 7 7/8	✓	
RUDDER—A x D	736			
Speed of Vessel	10 knots			✓
RUDDER mainpiece at head	Forging	10 1/4	Ken & Co.	✓
" " heel	"	7 3/4	"	
" how constructed	Arms Shrink on			
" double or single plate	Single			
" coupling, vertical or horizontal	Horizontal			

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)			
	Messrs. Wm. Beardmore & Co. Ltd.	David Colville & Son Ltd.	Pearl & Partners Ltd.	
	Lanarkshire S. Co. Ltd.	Consolidated Iron Co. Ltd.		
Has the Steel been tested as required by the Rules?				

EQUIPMENT No. 35664										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.				
61113	1st Bower ...	64	2	0				50	15	0	0	63 3/4	Stockless	J. Wright & Co. Ltd.	Lpton. 1-5-28. W.A. Sykes
60876	2nd „ ...	64	1	14				50	12	2	0	63 3/4	- do -	- do -	" 3-2-28 "
61112	3rd „ ...	64	0	17				50	12	2	0	63 3/4	- do -	- do -	" 1-5-28 "
	Collective weight.	193	0	3								182			
61082	Stream	17	2	10				18	14	1	14	17 1/2	- do	- do -	" 4-4-28 "

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.	Statu- tory.	Break- ing.	Supplied.		Per Rule.	Length.	Diam.					Length.	Cir.		Length.	Cir.	Length.	Cir.
					Fathoms.	Ins.														
62938	135½	2¼	91½	127½	345	-	19	682¼	270	2¼	Steel Link	J. Wright & Co. Ltd. Linton 5-4-28. W.A. Sykes	LOWLINE...	120	5	59	120	5		
63055	135	2¼	91½	127½	342	-	0			"	"	" " "	HAWSERS & WARPS	2090	2¾	15½	2090	2¾		
	270				687	-	19						"	2090	2½	12½	2090	2½		
41226										Cir.			"							
Chain or Steel wire	90	1¼	28½	42½	73	-	10	72	90	1¼	"	-	Bradley/Kent. 30-4-28	"						
Steel wire	90	4¾		47					90	4¾	"	L.C. Paul.	"							

Steering Gear, Steam *Port Glasgow Eng. Co. Port Glasgow.* Steering Gear, Hand ☒

Boats *2 Lifeboats 26'0" x 18'3"* Steering Chains, Size and Test ☒ Windlass *Clark Chapman. Steam.*

Ceiling in Holds, thickness and material *W.P. 3 1/2" in Hold Hatches 2 1/2" elsewhere* Cargo Battens, thickness, material and spacing *6" x 2" W.P. spaced 9".*

Cargo Hatchways. — (Upper Deck) *5'* Thickness of Hatches *2 1/2"*

Size of No. 1 Hatchway (Forward) *29'3" x 24'1"* No. 2 *30'4" x 24'1"* No. 3 *21'0" x 24'1"* No. 4 *30'4" x 24'1"* No. 5 *30'4" x 24'1"* No. 6

Number of Shifting Beams and for Fore and Afters *5 in 1 1/2, 2, 4, 8, 16. — 4 in 1 1/2, 3.*

THE CALEDON SHIPBUILDING & ENGINEERING CO LTD

Builder's Signature

Henry Harris

GENERAL MANAGER, SHIPBUILDING DEPT.

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

This vessel has been constructed under Special Survey in accordance with the approved Plans & Rules.

The materials and workmanship are sound and good.

The foreboard markings have been cut in on the vessel's side & verified.

The double bottom tanks, fore & after peak tanks, weather decks & waterways & bulkheads have been tested as required by the Rules with satisfactory results.

The vessel has proceeded to ballast on Tyne where the machinery is to be fitted on board and tried under working conditions.

To complete the Survey the following remains to be done: — Engine & boiler casings to be closed. Steering gear, windlass & anchors to be examined under working conditions. Pumping arrangement to be complete. The Newcastle Surveyors have been notified.

The approved plans, forging reports & steel invoices are forwarded herewith.

Please return approved plans for use in connection with N^o 323-4.

The amount of Entry Fee £ *9 : 0 : 0* Fees applied for, *12-7-1928.*

Special Survey Fee.... £ *335 : 10 : 6*

Hd Fee 10 : 0 : 0 Received by me, *17-8-1928*

Travelling Expenses, if any £ *2 : 0 : 0* *Feb (£344.10.6).*

I am of opinion the Vessel should be Classed *+100 A.1.*

State whether the Vessel has been built under Special Survey *No*

Signature

Sydney Bell

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *sent to London.* Date of issue *17/8/28*

Committee's Minute

FRI. 24 AUG 1928

Character assigned

100A1 on rule Rpt 83/26

Lloyd's atcl

thru 8.28 ce

WJ

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.)

Midship Section.
Fly to midship Section, alternative of Bracket floors.
Re-arrangement of Decks amidship.
Profile & Decks.
Watertight bulkheads.
Strong beam & Sudders.
Fore peak bulkhead.
Section through Engine & Boiler casing & strong beam.
Lunnet.
Proposed trimming hatch in Upper Deck.
Pumping arrangement.
Consumption test.
Cast Steel Hatch Slides.
Section through engine space.
No. 1 Stringer.
Stringer in bottom forward of 3/5 L.
Tank top in machinery space.
Cast Steel quadrant and pinion.
Pillars, girders & hatch and beams.
Fore and framing.
After and framing.
Hatch deckhouses.
Cargo Hatches.
Shell plan.
Multiple punching diagram.

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

1st Bower $H^{\circ} 6113 = 39-1-7$, K.H. 5257, 13-4-28.
2nd „ $H^{\circ} 60876 = 38-2-27$, H.B. 2322, 30-1-25.
3rd „ $H^{\circ} 61112 = 38-2-27$, K.H. 5256, 13-4-28.
 $H^{\circ} 61082 = 10-0-11$, H.B. 3319, 14-9-27.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 36.08 ft., R.Q.D. 12 ft., Bridge 126 ft., Forecastle 39.08 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 DK. (STL)

Official No. ; Signal Letters Is bottom of Vessel coated with cement no if not give particulars of composition Bitumen.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length.		Where Fitted.	*Length.	
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	135	468	Fore peak tank,	22'-6"	136
Double bottom, under Engines and Boilers,	—	—	After peak tank,	24'-0"	280
Double bottom, if under Engines only,	21	94	Deep tank, aft,	✓	✓
Double bottom, if under Boilers only, Dry tank, 16'-6" 15 tons	✓	✓	Deep tank, forward,	✓	✓
Double bottom, forward,	186.5	680	Other tanks, if fitted,	✓	✓
Total capacity of double bottom	1242		(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. 971.

Date

7-11-1927.

Dates of Surveys held while building

1927. DEC. 12, 14, 15, 21, 27. 1928. JAN. 6, 9, 13, 20, 24, 25, 30. FEB. 1, 13, 16, 20, 22, 27.
MAR. 1, 6, 7, 12, 13, 15, 19, 21, 22, 26, 28, 29. APR. 4, 5, 11, 12, 16, 22, 25, 26.
MAY. 1, 4, 11, 15, 21, 22, 24, 25, 28, 30, 31. JUNE. 1, 5, 8, 12, 13, 19, 21, 25, 26, 27, 29.
JULY. 3, 4, 10.

Total No. of Visits

Lloyd's Register Foundation