

3 Decks.

IRON OR STEEL STEAMER.

No. 4316

Date of completion of report 2^d Dec 1893 Port of Belfast Received at London Office 4 DEC 1893
Survey held at Belfast Date, First Survey 13th April 1893 Last Survey 28th Nov 1893

On the Steel screw Steamer "Ormiston" Rig B.V.N.

THREE DECKED VESSEL.
CLASS *100 A1

Master Darling
Year of appointment 1893
(1) As Master in service of owner of present vessel: 1893
(2) As Master of this vessel: 1893

Built at Belfast
When built 1893 Launched Oct 25, 1893
By whom built Workman Clark & Co Ltd
Owners R & C Allan
Managers do
(Where necessary to be entered in Reg. Book.)
Residence Glasgow
Port belonging to do.

TONNAGE under Tonnage Deck... 3323.52
Do. between Tonnage Dk. and 3rd and 4th Dk. }
Total under Upper Dk. }
Do. of Poop 2.36
Do. of Bridge House 40.62
Do. of Forecastle 41.29
Do. of Houses on Dk. 59.09
Do. of excess of Hatchways 20.40
Do. above Crown of Engine Room 68.61
Gross Tonnage 2561.89
Less Crew Space 82.03
Less above Crown of Engine Room 68.61
TONNAGE FOR FEES.. 3411.25
Less Engine Room 1139.81
Less Navigation Spaces 33.70
+ Left 8 air 68.61
Register Tonnage 2306.35
as cut on Beam ..

Half Breadth (moulded) 22-1 1/2
Depth from upper part of Keel to top of Upper Deck Beams 29-11 1/2
Girth of Half Midship Frame (as per Rule) 48-7
deduct 7 feet. 97.66
1st Number 93.66
Length 359.16
2nd Number 33.639
Proportions—Breadth to Length 8.1
Depth to Length—Upper Deck to top of Keel 11.9
Main Deck ditto 15.9

Destined Voyage Singapore via Cardiff If Surveyed while Building, Afloat, or in Dry Dock Building

LENGTH on Deck	Feet.	Inches.	BREADTH—	Feet.	Inches.	DEPTH top of Floor to Upper Deck Beams	Feet.	Inches.	Power of Horse.	No. of Decks with flat laid
as per Rule	359	2	Moulded	44	3	Do. do. Main Deck Beams	17	11 1/2	Engines 320	two

Dimensions of Ship per Register, Length 361.0 breadth 44.45 depth 26.25 Moulded depth, ft. 29 ins. 1 To Upper Dk. Round up of Beam, Upper Dk. 10 1/2 ins.

FRAMING.						FORGINGS or CASTINGS.					
	Inches in Ship.	Inches in Ship.	16ths or 20ths in Ship.	Inches per Rule Or as Appro.	16ths or 20ths per Rule.		Inches in Ship.	Inches in Ship.	16ths or 20ths in Ship.	Inches per Rule Or as Approved.	16ths or 20ths per Rule.
FRAME, Angles, or Bars for 1/2 length amidships	6	3 1/2	9	6	3 1/2	KEEL, Bar or Side Plates, depth and thickness	10	1 5/16	10	1 5/16	
Do. for 1/2 at each end	"	"	8	"	8	STEM, moulding and thickness	10	3 1/2	10	3 1/2	
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	9	3 1/2	3 1/2	STERN-POST for Rudder do. do.	11	6 3/4	11	6 3/4	
" " at intermdt. Bkts.	"	"	"	"	"	" for Propeller	"	"	"	"	
Distance of Frames from moulding edge to moulding edge, all fore and aft	24	"	24	"	24	MAIN PIECE of Rudder, diameter at head	9	"	9	"	
REVERSED FRAME, Angles	5 1/2	3 1/2	9	5 1/2	3 1/2	" do. at heel	4 1/2	"	4 1/2	"	
DEEP FRAMING, depth of girder	8 1/2	"	8 1/2	"	8 1/2	RUDDER, how constructed	Cast steel centre plate				
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships	"	"	"	"	"	Can the Rudder be unshipped afloat?	Yes				
" in way of Engines and Boilers	"	"	"	"	"	KEELSONS & STRINGERS.					
" thickness at the ends of vessel	"	"	"	"	"	CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate	"	"	"	"	
" depth at 1/2 the half breadth, as per Rule	"	"	"	"	"	" Rider Plate	"	"	"	"	
" height extended at the Bilges	"	"	"	"	"	" Bulb Plate to Intercoastal Keelson	"	"	"	"	
FLOORS & BRACKETS in Cell Dble Bottoms	44	8/20	"	8/20	"	" Horizontal Plates on Floors	"	"	"	"	
" Distance apart	24	"	24	"	24	" Angles	"	"	"	"	
ENTRE GIRDER, in Double bottom, depth and thickness	44	10-9	44	10-9	10-9	SIDE KEELSON, Angles	"	"	"	"	
" Angles, Top	4	9	4	9	9	" Bulb or Plate above floors, for lng.	"	"	"	"	
" " Bottom	"	"	"	"	"	" Intercoastal Plate, for length	"	"	"	"	
SIDE GIRDERS, number and thickness	one	7/16	one	7/16	7/16	" Attached to outside Plating with Angle	"	"	"	"	
" Angles	3 1/2	3 1/2	8	3 1/2	3 1/2	BILGE KEELSON, Angles	"	"	"	"	
MARGIN PLATE, depth (exclusive of flange) and thickness	34	9	30	9/20	9/20	" Bulb or Plate above floors, for lng.	"	"	"	"	
" Angles	4	4	4	4	4	" Intercoastal Plate for length	"	"	"	"	
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	48	10-8	36	10-8	10-8	" Attached to outside Plating with Angle	"	"	"	"	
" " in Engine and Boiler space	8/16	"	8/16	"	8/16	BILGE STRINGER Angles	6	4	10	6	
" " Remainder in Holds	7/16	"	7/16	"	7/16	" Bulb Plate for length	"	"	"	"	
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	9	10	9	10	10	" Intercoastal Plate for length	"	"	"	"	
" Angles on upper edge	"	"	"	"	"	" Attached to outside Plating with Angle	3 1/2	3 1/2	10	3 1/2	
" Average space	48"	"	48"	"	48"	" Bulb or Intercoastal Plate, for whole lng.	4	4	10	4	
BEAMS, Middle Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	11	10	10	12	12	" Attached to outside plating with Angle	4	4	10	4	
" Angles on upper edge	"	"	"	"	"	Upper Deck Stringer Plates, br'dth & thickness	5.5	12	5.5	"	
" Average space	48"	"	48"	"	48"	" Angle on ditto	4 1/2 x 4 1/2	11	4 1/2 x 4 1/2	"	
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	"	"	"	"	"	" Tie Plates fore and aft, outside Hatchways	"	"	"	"	
" Angles on upper edge	"	"	"	"	"	" Wood Deck. Material & thickness	7-6	"	7-6	"	
" Average space	48"	"	48"	"	48"	" Middle Deck Stringer Plate, br'dth & thickness	5.5	10	5.5	"	
BEAMS, Hold, or Orlop, Plate or Tee Bulb	"	"	"	"	"	" Angles on ditto, No. two	4 x 4	9	4 x 4	"	
" Angles on upper edge	"	"	"	"	"	" Tie Plates outside Hatchways	"	"	"	"	
" Average space	"	"	"	"	"	" Diagonal Tie Plates on Bms., No. of prs.	"	"	"	"	
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	8	10	8	10	10	" Deck. * Iron Steel, for whole lng.	7-6	"	7-6	"	
" Angles on upper edge	"	"	"	"	"	" Wood Deck. Material & thickness	16	"	16	"	
" Average space	48"	"	48"	"	48"	Lower Deck Stringer Plate, br'dth & thickness	"	"	"	"	
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	8	10	8	10	10	" Angles on ditto, No.	"	"	"	"	
" Angles on upper edge	"	"	"	"	"	" Tie Plates, outside Hatchways	"	"	"	"	
" Average space	48"	"	48"	"	48"	" Deck. * Material and thickness	"	"	"	"	
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	9	11	9	11	11	Hold, or Orlop Stringer Plate, br'dth & thckn's	"	"	"	"	
" Angles on upper edge	"	"	"	"	"	" Angles on ditto, No.	"	"	"	"	
" Average space	48"	"	48"	"	48"	" Tie Plates outside Hatchways	"	"	"	"	
CLARS, In 'tween Deck, size and spacing	27/8	48"	27/8	48"	48"	" Deck. Material and thickness	"	"	"	"	
" " Hold	4/8	"	4/8	"	4/8	Poop Deck Stringer Plate, breadth & thickness	36	7	36	7	
" " Quarter 'tween Dks.,	27/8	8ft	27/8	8ft	8ft	" Angle on ditto	3 1/2 x 3 1/2	8	3 x 3	8	
" " in Hold	4/8	"	4/8	"	4/8	" Tie Plates	13	7	13	7	
EB-FRAMES, In Fore Body, No. and spacing	"	"	"	"	"	" Deck. Material and thickness	3" YP	"	3 YP	"	
" " br'dth. & thickness	"	"	"	"	"	Bridge Deck Stringer Plate, br'dth & thickness	40	9	40	9	
EB-FRAMES, In E. & B. Space, No. & spacing	3 as per profile	"	3	"	"	" Angle on ditto	3 1/2 x 3 1/2	9	3 1/2 x 3 1/2	9	
" " br'dth. & thickness	21	9	21	9	9	" Tie Plates	13	8	13	8	
EB-FRAMES, In After Body, No. and spacing	"	"	"	"	"	" Deck. Material and thickness	3 YP	"	3 YP	"	
" " br'dth. & thickness	"	"	"	"	"	Forecastle Deck Stringer Plate, b'dth & th'kns	31	7	31	7	
" " No. of Side Stringers	"	"	"	"	"	" Angle on ditto	3 1/2 x 3 1/2	8	3 x 3	8	
" " Size of Angles or Tee Bars to Web-Frames	4	3 1/2	4	3 1/2	3 1/2	" Tie Plates	13	7	13	"	
	"	"	"	"	"	" Deck. Material and thickness	3 YP	"	3 YP	"	

BULKHEADS.			STIFFENERS.				Single or Double Frames.
In Vessel.	Per Rule.	Thickness.	Horizontal.	Vertical.	Spacing.	Inches.	
W. T. BULKHEADS	6	6	7 to 6	8 x 3 x 11	6 x 39	30"	Double
PARTITION "	"	"	"	"	"	"	"
LONGITUDINAL "	"	"	"	"	"	"	"

Are the outside Plates doubled two spaces of Frames in length? Yes

PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.			BUTTS.									
	AMIDSHIP.		FORWARD.		AMIDSHIP.	Thickness.	Single or Double.	Breadth of Lap.	Diam.	Spacing or to cr.	Double or Treble and for what Length.	RIVETS.		STRAPS.		IF LAPPED.		Breadth.	For what Length.
	Breadth.	Thickness.	Breadth.	Thickness.								Inches.	Inches.	Inches.	Inches.	Inches.	Feet.		
Bar Keel, state Meeting)																			
GARBOARD OF A Strake	36	13	12	12	36	13-12	Double	5 1/4	7/8	3 3/4	treble	7/8	3 3/4	16 3/4	16	10"	whole		
State actual thickness in way of Double Bottom.																			
B "		11	9	9		11-9													
C "		11	9	9		11-9													
D "		11	9	9		11-9													
E "		12	9	9		12-10													
F "		14	10	10		13-10													
G "		14	10	10		13-10													
H "		12	9	9		12-9													
J "		12	9	9		12-9													
K "		12	9	9		12-9													
L "		13	9	9		13-9													
M "		15	9	9		15-9													
N "	46	16	10	10	46	16-10													
O "																			
P "																			
Q "																			
R "																			
DOUBLING OF Flat Plate Keel																			
Length of Bilges																			
Thickness of Sheerstrakes.	20 feet	double	at ends of	ends of															
Thickness of Strake below	Bridge																		
POOP SIDES					7	7		Single	2 1/2	3/4	3"	Double	3/4	2 1/2			5 1/2	whole	
BRIDGE SIDES	998				998														
FORECASTLE SIDES					7	7													

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c.: *James, Reid, Keelsons Steel Co of Scotland*
Beams, Palmers. Stringers Shell Decks Stockton
Malleable. Floors, Masts, Conssett Iron & Steel Co
B.H. & W. Beardmore & Co. Tank top, Clydeside

Upper Deck (Butts, treble riveted for *whole* length amidship.
 Stringer Plate) *Straps single, double or overlapped for whole length amidship.*
 Middle Deck (Butts, treble riveted for *whole* length amidship.
 Stringer Plate) *Straps single, double or overlapped for whole length amidship.*
 Butts of Bilge & Side Stringers and Tie Plates, treble or double riveted? *treble*
 Inner Bottom Plating, riveting of Edges *double & single Butts double*
 Centre Girder Butts, *treble* riveted *Keelson Butts, riveted.*
 Frames, riveted through Plates with *7/8* in. Rivets, about *6 1/4* apart.
 Rivets, state whether Iron or Steel *Iron*

FRAMES extend in one length from *Keel* to *Margin* & *Margin* to *gunwale*
 REVERSED FRAMES on floors and frames extend from *Keel to Margin & Margin to mid & up to deck*

MASTS, SPARS, &c.									
LOWER MAST.	Fore	Main	Mizzen	DIAMETER AND THICKNESS.			No. of Plates in round.	ANGLES.	
				At Partners.	Heel.	Hounds.		Number.	Size.
Fore				50-6	22 3/4 x 7/10	17 3/4 x 6	18 3/4 x 6	2	
Main									
Mizzen									
Bowsprit									
Topmasts, Yards and Remainder of Spars	Fore topmast & lower yard of steel others of wood								
Rigging, Material and Size, Shrouds	Fore shrouds of 4" steel Main 5" hump 4" in 2 1/2 stays 4" steel (double) Main 8" hump (double)								
Sails.	one Suit of canvas Sails, and the following spare sails								

EQUIPMENT No. 37982 LETTER W										ANCHORS.									
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQ. BY RULE.			Description of Anchor.	Makers.	Where and when tested and Superintendent.			
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.					
34225	1st Bower	40	2	4	10	2	15	36	4	1	14	40	qrs.	-	Royal Navy	11/10/93	10/10/93	10/10/93	10/10/93
34208	2nd "	39	2	25	10	1	23	35	11	3	14	40	-	-	"	16/10/93	16/10/93	16/10/93	16/10/93
34207	3rd "	34	0	10	8	3	6	31	14	1	14	34	-	-	"	16/10/93	16/10/93	16/10/93	16/10/93
Collective weight.		114	1	11				114											
34205	Stream	12	0	19	3	0	9	14	1	3	14	12	0	0	do	do	do	do	do
34215	Kedge	6	0	0	1	2	15	8	5	-	-	6	0	0	do	do	do	do	do
	2nd Kedge																		

CHAIN CABLES.										HAWSEERS AND WARPS.											
Number of Certificate.	Fathoms.	Size.	Test per Certificate.		WEIGHT OF CHAIN CABLE.		Fathoms and Size per Rule.	Description.	Makers of Cables.	When and where tested, and Superintendent.	Material.	Fathoms.	Size.	Breaking Test of Steel Wire Towline.	Fathoms and Size Per Rule.						
			Tons.	Supplied.	Per Rule.																
13818	29-4	2 7/8	107-2-0	62-0-25	573-2-14	270 x 2 1/8	Steel	W. H. & Co. Ltd.	17/10/93	S. G. Pitt	TOWLINE	120	4 1/2	39 tons	120 x 4 1/2						
21908	120-5		76-10-0	260-2-10		270 x 2 1/8										16/10/93	Hawseer	90	3 1/4	22	90 x 3 1/4
21903	119-3		258-0-0	do		do															
269-4	269-4																				
Iron Stream Chain or Steel Wire ...	90	4 1/2	39 tons	580-3-7		90 x 4 1/2															

Boats *Five boats*
 Pumps, Number *8 Manual (in working order)* Diameter of Barrel and Tail Pipe *7 & 5 x 2 1/2 9 in at 6" x 3"*
 Windlass is *Emerson Walker* Capstan *over windlass on fore head*
 Engine Room Skylights.—How constructed? *of steel*
 What arrangements for deadlights in bad weather? *Circular lights*
 Coal Bunker Openings.—How constructed? *Ceasings* How are lids secured? *Cross & tarpaulins* Height above deck? *12"*
 Number of Scuppers, and numbers and dimensions of Freeing Ports, &c.
 Ceiling in Holds, thickness and material *2 1/2 inch pine* Ceiling 'tween Decks, thickness and material *2 inch pine*
 Cargo Hatchways.—How formed? *Deep Coaming to lower edge of beam* Hatches, If strong and efficient? *Yes*
 State size No. 1 Hatch (Forward) *16-0 x 12-4* No. 2 Hatch *28' x 14-0* No. 3 Hatch *20-0 x 14-0* No. 4 Hatch *20-0 x 11-8*
 Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *No 1 One beam & 3 wood for 4 after No 2 Two deep webs & 3*
 No 3 after *No 3 4 One deep beam & 3 7 after* No. of Breasthooks *8* No. of Crutches *2*
 Bulwarks, height above deck and description *3'-9"* Main Rail, material and size *5 1/2*
 The above is a correct description
 WORKMAN, CLARK & CO., LIMITED.
 Builder's Signature (here only) *John A. Clark* Secretary
 Surveyor's Signature *Al Campbell Holmes*
 Surveyor to Lloyd's Register of British and Foreign Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case) *Case of "Ormidale"*
12/12/92 16 31/12/92 19.21.30/1/92 3/2/93 2.9/3/93

Workmanship. Are the butts of plating planed or otherwise fitted? *Planed*
 Is the riveted work properly closed? *Yes*
 Are the liners between the frames and plates solid single pieces? *Yes* Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *Yes* Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? *Yes* Do any rivets break into or through the seams or butts of plating? *No*
 Are the butts of Plating, Stringers, &c., properly shifted and strapped? *Yes*

General Remarks (State quality of workmanship, &c.)
This vessel has been built under special survey in accordance with the Secretary's letter of above date, referring to the sister ship "Ormidale", & plans submitted with her. A duplicate section for this vessel has been forwarded for preparation of certificate. The Rules of the Society have been adhered to & the material & workmanship are good throughout. The watertight door in the engine room is in working order.

Butt straps have been tested - see Surveyor's letter 6.12.93
 The Surveyor should state the Number of Report and Name of any Sister Vessel. *88 "Ormidale"*

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *25* ft., R.Q.D. or Break *✓* ft., Bridge Dk. *76* ft., F'castle *47* ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated *✓*

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) *2 Dks (1st Iron) 2 to 13 "Deck teak"*

Official No. *✓*; Signal Letters *✓*
 How are the surfaces preserved from oxidation? Inside *Cement* & Paint Outside *Paint*

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system *Yes, continuous floors on every frame*

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
Double bottom, aft.	104	225	Fore peak tank,		
Double bottom, forward.	120	296	After peak tank,		
Double bottom, under Engines and Boilers.	66	180	Midship deep tank,	20	46
Double bottom, if under Engines only,	290	701	Other tanks, if fitted,		
Double bottom, if under Boilers only,			(If necessary, furnish further information by sketch.)		

State whether the above have been tested as required by the Rules. *Yes*

Order for Special Survey No. <i>366</i>	1st. On the several parts of the frame, when in place, and before the plating was wrought.	Apr 13, 18, 21, 25 May 1, 8, 16, 24, 29
Date <i>May 17/93</i>		
Order for Ordinary Survey No. <i>✓</i>	2nd. On the plating during the process of riveting	June 3, 7, 12, 15, 24, 30. Jul 4, 7, 25, 28.
Date <i>✓</i>		
No. <i>105</i> in builder's yard.	3rd. When the beams were in and fastened, and before the decks were laid.	Aug 1, 3, 11, 29. Sep 5, 13, 21, 26.
	4th. When the ship was complete, and before the plating was finally coated or cemented.	Oct 4, 9, 13, 25, 30. Nov 9, 16, 25, 28
	5th. After the ship was launched and equipped	Total No. of Visits <i>37</i>

The amount of Entry Fee.....£5 : 0 : 0
 Special Survey Fee ...£110 : 5 : 6
 Travelling Expenses, if any £ : 9 : 0
 Fees applied for, *30 Nov 1893*
 Received by me, *5/13/93 J.A.H.*
 Certificate to be sent to *here*

I am of opinion this Vessel should be Classed *100 A1*
 With, or without Freeboard, as condition of Class *without a freeboard*
 Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute *TUES. 5 DEC 1893*
 Character assigned *100 A1 Steel*

2 A + C P + 2 Mc 11, 93
2 Dks (1 Iron & 1 Stl - Teaks) + deep framing 3 dk Rule
100 A1 (Stat)
2 Dks (1 Iron & 1 Stl - Teaks) + deep framing 3 dk Rule
W.B. = Cell D.B. 4 in. (particulars above)

The Surveyor should be requested to state whether the requirements of Circular No. 337 have been complied with in this case. *✓*
 See Surveyor's reply 6.12.93
 Lloyd's Register Foundation