

No. 59055

Survey held at Howdon

Date, First Survey 1st Feb. 1910

Last Survey 29th August 1910

On the *Steel Screw Steamer "MARENGO"*

Rig Fore + aft Schooner

TONNAGE under } 4626.07
Tonnage Deck }

CLASS 100 AL

FET.

Master *G. W. Owen*

Year of Appointment { (1) As Master in service of
owner of present vessel:—19
(2) As Master of this
vessel: August 1910

Built at Howdon-on-Syde

When built 1910 Launched 8th June 1910

By whom built Northumberland Shipbuilding Co. Ltd.

Owners *J. Wilson Sons & Co. Ltd.*

Managers

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

Residence Hull

Port belonging to Hull

If Surveyed while Building, Afloat, or in Dry Dock Special Survey

LENGTH on Deck as per Rule	Ft. 410	Ins. -	BREADTH — Moulded . .	Ft. 51	Ins. 8	DEPTH, ACTUAL —Top of Floors to top of Awn. or Shelter Dk. Beams do. Upper Deck Beams	Ft. 36	Ins. 5 1/2	No. of Decks with flat laid Three
<i>Dimensions of Ship per Register,</i>							Ft. 27	Ins. 11 1/2	No. of Tiers of Beams Three
Length 410.0			breadth 52.0		depth 27.8	Awn. or Shelter Dk. Moulded depth, ft. 39 ins. 0 To Awn. or Shelter Dk.	Round up of Uppermost		
						Upper Deck. Moulded depth, ft. 30 ins. 6 To Upper Dk.	Dk. Beam, Actual . . 12 1/2 ins.		

	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule	Inches per Rule Or as Appro- ved.	Inches per Rule
FRAME, Angles, or E or L Bars, amidships . . .	9	3½	58	9½	3½	54
Do. in peaks	7	3½	44	7	3½	44
Do. in way of Double Bottoms at Solid Floors . .	3½	3½	40	3½	3½	40
" " " " at intermdt. Bkts.	✓					
Spacing of Frames from centre to centre amidships		26			26	
" " length to collision bulkhead		26			26	
" of Frames from centre to centre in peaks..		24			24	
REVERSED FRAME, Angles.	Bull Angle	Frames				
FRAMING, depth of girder	9					
FLOORS, depth and thickness of Floor Plate } at mid-line for ¾ length amidships . . . }	✓					
" in way of Engine and Boiler spaces	✓					
" thickness at the ends of vessel	✓					
" depth at ¾ the half-bdth. as per Rule . .	✓					
" height extended at the Bilges	✓					
FLOORS & BRACKETS, in Cell Dble Bottoms state if flanged (top & bottom)	*44 to *40	*44 to *40				
" " spacing	On every frame					
CENTRE GIRDER, in Dbl bottom, dpth.&thickness Angles, Top	43 x 50 to 40	43 x 50 to 40				
" " " Bottom	32 x 32 to 50 to 46	32 x 32 to 50 to 46				
" " " to Floors	42 x 42 to 60 to 54	42 x 42 to 60 to 54				
SIDE GIRDERS, number and thickness	5 x 5 to 56	5 x 5 to 56				
" state if flanged (top & bottom)	Two 44 to 40	Two 44 to 40				
" Angles	Flanged to floors					
MARGIN PLATE, depth (exclusive of flange) and thickness	35½ x 48	34 x 48				
" Angles to outside plating	4 x 4 to 48	4 x 4 to 48				
" " to floors	5 x 3½ to 40	5 x 3½ to 40				
" Height of Brackets above at bilge	43	43				
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	64 x 48 to 38	64 x 48 to 38				
" " thickness in Engine and Boiler space	E.S. 48 B.S. 56	E.S. 48 B.S. 56				
" " Remainder in Holds	40 to 36	40 to 36				
BEAMS, Awng or Shltr Dk, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel } Angles on upper edge	6 x 3 to 44	6 x 3 to 44				
" Spacing	On every frame					
BEAMS, Upper or Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel } Angles on upper edge	9 x 3½ to 50	9 x 3½ to 50				
" Spacing	On alternate frames					
BEAMS, Third or Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel } Angles on upper edge	10 x 3½ to 52	10 x 3½ to 52				
" Spacing	On alternate frames					
BEAMS, Fourth or Fifth Deck, Plate, Tee Bulb or Channel	✓					
" Angles on upper edge	✓					
" Spacing	✓					
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel	✓					
" Angles on upper edge	✓					
" Spacing	✓					
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel	✓					
" Angles on upper edge	✓					
" Spacing	✓					
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel	✓					
" Angles on upper edge	✓					
" Spacing	✓					
PILLARS, In tween Deck, size and spacing Hold	2½ and 2½	2½ and 2½				
" Quarter, tween Dks., " " "	4	4				
" " in Hold	Dubble channels as per approp plan					
WEB FRAMES, In Fore Body, No. and spacing brdth. & thickness	Four angles as per approp plan					
" " " " " " "	✓					
" No. of Side Stringers	one	one				
WEB FRAMES, In E. & B. Space, No. & spacing brdth. & thickness	21 x 42	21 x 42				
WEB FRAMES, In After Body, No. and spacing brdth. & thickness	one	one				
" " " " " " "	21 x 42	21 x 42				
" No. of Side Stringers	✓					
" Size of Face Angles to Web Frames	7 Flange					
BRACKET PLATES to Stringers between Web Frames, depth and thickness	✓					

FORGINGS AND CASTINGS.		Inches in Ship.	Inches per Rule. Or as Approved.
KEEL, Bar, depth and thickness.....		<i>Flat-plate keel</i>	
STEM, moulding and thickness		$10 \times 2 \frac{29}{32}$	$10 \times 2 \frac{29}{32}$
STERN-POST for Rudder do. do.		$9 \times \frac{1}{2}$	$9 \times \frac{1}{2}$
" " for Propeller.....		$10 \frac{1}{2} \times \frac{1}{2}$	$10 \frac{1}{2} \times \frac{1}{2}$
RUDDER—A x D* Table 22		$15 \frac{1}{2} \text{ sq ft} \times 3 \cdot 33 \text{ ft} = 502 \cdot 83$	
" Main Piece, diameter at head		10"	10"
" " " " at heel		$\frac{1}{2}$	$\frac{1}{2}$

Can the Rudder be unshipped afloat? Yes

KEELSONS AND STRINGERS.		Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or a	Inches per Rule Approved.	Inches per Rule
CENTRE LINE KEELSON , Vertical Plate above } floors, Through Plate, or Intercostal Plate }							
"	Rider Plate						
"	Flat Keel Plate Angles						
"	Horizontal Plates on Floors						
"	Angles or Bulb Angles						
SIDE KEELSONS , Number							
"	Angles or Bulb Angles						
"	Plate above floors, length						
"	Intercostal Plate, for length						
"	Attached to outside plating with Angle						
BILGE KEELSON , Angles							
"	Intercostal Plate, for length						
"	Attached to outside plating with Angle						
SIDE STRINGERS , Number							
"	" Angle						
"	" Intercostal Plate, for <i>at midline</i>						
"	Attached to outside plating with Angle						

Cellular Double Bottom

One aft and two forward

6 1/2	3 1/2	5.0	6 1/2	3 1/2	5.0
13	4.4		13	4.4	
3 1/2	3 1/2	4.4	3 1/2	3 1/2	4.4

Awning or Shelter Deck Stringer Plates,			
breadth and thickness	55-35x54-44	55-35x64-44	
Angles on ditto	5x6x60 1/2	5x5x60 1/2	
Tie Plates, fore and aft, outside Hatchways	3 1/2x3 1/2x44	3 1/2x3 1/2x44	
Deck, * Iron or Steel, for full lng.	40-34	40-34	
Wood Deck. Material & thickness			
Upper or Second Deck Stringer Plate,			
breadth and thickness	60-42x46-42	60-42x46-42	
Angles on ditto, No. <i>Two</i>	3 1/2x3 1/2x48	3 1/2x3 1/2x48	
Tie Plates, outside Hatchways			
Deck, * Iron or Steel, for full lng.	40-34	40-34	
Wood Deck. Material & thickness			
Third Deck Stringer Plates, br'dth & th'k'n's			
Angles on ditto, No. <i>Two</i>	63-42x40	63-42x40	
Tie Plates, outside Hatchways	3 1/2x3 1/2x48	3 1/2x3 1/2x48	
Deck, * Material and thickness <i>Steel</i>	34-30	34-30	
Fourth and Fifth Deck Stringer Plate,			
breadth and thickness			
Angles on ditto, No.			
Tie Plates, outside Hatchways			
Deck. Material and thickness			
Poop Deck Stringer Plate, breadth & thickness			
Angles on ditto			
Tie Plates			
Deck. Material and thickness			
Bridge Deck Stringer Plate, br'dth & thickness			
Angle on ditto			
Tie Plates			
Deck. Material and thickness			
Forecastle Deck Stringer Plate, b'dth & th'k'ns			
Angle on ditto			
Tie Plates			
Deck. Material and thickness			

* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.									
BULKHEADS.	Number.		Thickness.	STIFFENERS.				Single or Double Frames.	Height up.
	In Vessel.	Per Rule.		Horizontal.		Vertical.			
					Size.	Spacing.	Size.	Spacing.	
			Inches.	Inches.	Inches.	Inches.	Inches.		
T. BULKHEADS	7	7	30-40	7 x 3"	42 to 48 inches	as per plan	Single	Up from 0'	
LISION "	1	1	3 1/2 - 4 1/2	8 1/2 x 4"	as per plan	100's - 120's 7 ft.	"	to 3' 6"	
RITION "				D.A.		D.A.		Shellin 0'	
NGITUDINAL "									

Are the outside Plates doubled two spaces of Frames in length? *Guzzled plating*
Are the Sluice Valves and Watertight Doors in efficient working order? *Yes*

PLATING. RIVETING. STRAKES. AS IN SHIP. PER RULE OR AS APPROVED. EDGES. BUTTS. Double or Treble and for what Length. Rivets. Diam. Spacing or to cr. Straps. Breadth. Thickness. If LAPPED. For what Length. Feet. FLAT PLATE KEEL (If Bar Keel, state Riveting). GARBOARD OF A STRAKE. State actual thickness in way of Double Bottom. B. C. D. E. F. G. H. J. K. Shelter Deck L. Spun Strake. M. N. O. P. Q. R. S. DOUBLING of Flat Plate Keel. of Sheerstrakes (Length and Thickness). POOP SIDES. SHORT BRIDGE SIDES. FORECASTLE SIDES.

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.? Conssett Iron Coy Ltd, Cargo Shed, Dun Laoghaire, Dublin. Palmers Shipbuilding & Iron Coy Ltd, South Durham Steel & Iron Co. Ltd (Siemens Martin, Open Hearth Acid and Basic Open Hearth). Has the Steel been tested as required by the Rules? Yes. Awning or Shelter Deck (Butts, treble riveted for all fore & aft length amidship. Stringer Plate Straps, single, double or overlapped for full length amidship. Second Deck (Butts, treble riveted for all fore & aft length amidship. Stringer Plate Straps, single, double or overlapped for full length amidship. 3rd Deck Stringer Plate Butts of Side Stringers Butts overlapped & treble riveted all fore & aft riveted. Tie Plates riveted. Inner Bottom Plating, riveting of Edges (Centre Double Butts other Double for full length riveted. Centre Girder Butts, treble riveted Keelson Butts, riveted. Frames, riveted through Plates with 7/8 in. Rivets, about 5 1/2 apart. Rivets, state whether Iron or Steel Iron.

FRAMES extend in one length from Upper turn of bilge to Upper or Second deck state if ordinary or joggled? ordinary. REVERSED FRAMES on floors and frames extend from Bulk Angle frames state if ordinary or joggled?.

MASTS, SPARS, &c. LOWER MASTS. Fore Main Mizzen. Material. Total Length. At Partners. Heel. Hounds. Head. No. of Plates in round. ANGLES. Number. Size. RIVETING. Seams. Butts. Bowsprit. Topmasts, Yards and Remainder of Spars Pitch Pine. Rigging, Material and Size, Shrouds 3 1/2 g. S. Wire. Stays 4 1/2 g. S. Wire. Sails. Suit of. Sails, and the following spare sails.

EQUIPMENT No. 36624-75 LETTER Z. ANCHORS. Number of Certificate. Anchors. WEIGHT, EX. STOCK. WEIGHT OF STOCK. TEST, PER CERTIFICATE. WEIGHT REQ. BY TABLE 31. Description of Anchor. Makers. Where and when tested and Superintendent. 36316 1st Bower. 64 0 14. 50 10 0 0. 63 3. Sykes Britannia. R. Sykes & Son Ltd. Lipton. 14/6/10. C.E. Perkins. 36038 2nd. 63 2 21. 50 7 2 0. 63 3. 23/3/10. 36338 3rd. 54 3 7. 45 4 1 14. 54 2. 17/6/10. Collective weight. 182 2 14. 182. 13/4/10. 36131 Stream. 18 0 0. 4 2 14. 19. 17 2. 13/4/10. 36130 Kedge. 7 2 7. 9 13 3 0. 7 2. 13/4/10.

CHAIN CABLES. HAWSERS AND WARPS. Number of Certificate. Length and Size supplied. Test per Certificate. WEIGHT OF CHAIN CABLE. FATHOMS AND SIZE PER TABLE 31. Description. Makers of Cables. Where and when tested, and Superintendent. Material. Length and Size supplied. Breaking Test of Steel Wire per Table 31. FATHOMS AND SIZE. 10185 270 2 1/4 9 1/2 12 1/2 6 1/2 2-14 6 1/2 1-11 270 2 3/4 Stud R. Sykes & Son Ltd. Cardiff 5/10/10. J. G. D. Perkins. TOWLINE 120 5 64 120 5. HAWSERS & WARPS 90 3 1/2 26 2-90 2 3/4 15 1/2 2-90 8. 2-30-3 1/2 line 2-15-1 1/2 2-90 2 1/2 12 1/2 2-90 7. supplied by Messrs. 4-90 7.

Boats 2 Life Boats 1 Dingy + 1 Cutter. Steam Steering Gear Good. Hand Steering Gear Good (Donkin & Co). Pumps, Number Hand Pump to the Peak + Downston. Diameter of Barrel 6 and 5 1/2 in. State whether they are in efficient working order Yes. Windlass is Steam by Emerson Walker & Thompson Ltd. Capstan. Engine Room Skylights. How constructed? Steel plates + angles. What arrangements for deadlights in bad weather? Steel flaps + Bulkyes. Coal Bunker Openings. How constructed? Bulk Angle Lining. How are lids secured? Lockpaulin + battens. Height above deck? 9. Number of Scuppers, and number and dimensions of Freeing Ports, &c. Each side from Shelter + Upper Deck. One freeing port in fore + aft. Ceiling in Holds, thickness and material 2 1/2 W. Pine. Cargo Battens, thickness and material 6 x 2 White Pine. Cargo Hatchways. How formed? Steel plates + angles. Hatches, If strong and efficient? Yes. State size No. 1 Hatch (Forward) 26-0 x 15-11 1/4 x 1-6 No. 2 Hatch 28-2 x 15-11 1/4 x 1-6 No. 3 Hatch 28-10 x 15-11 1/4 x 1-6 No. 4 Hatch 10-10 x 15-11 1/4 x 1-6 Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch Web plating No. 1-3-546-4 No. 2-5 804 Three Wood Pine + afters 2-6 1/2 x 8 + one 8 1/2 x 8. No. of Breasthooks 3 and 3 Decks. No. of Crutches Deck floors. Bulwarks, height above deck and description Rails and Stanchions. Main Rail and Stays, material and size. The above is a correct description. THE NORTHUMBERLAND SHIPBUILDING COMPANY, LIMITED. Surveyor's Signature. Alex Munro. Lloyd's Register of British & Foreign Shipping. Builder's Signature (here only). J. G. D. Perkins. Director & Manager.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case) *M. 19th + 26th*

Nov 4 1909. 3rd Dec 04. 15th + 28th E Jan 1910. 9th Feb 1910. 10th 13th + 27th May 1910. 14th June 1910 + 1st July 1910.

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? *Very few*

Are the butts of Plating, Stringers, &c., properly shifted and strapped? *Yes*

Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)? *Yes*

State results of tests *Good*

Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? *Yes*

State results of tests *Good*

General Remarks (State quality of workmanship, &c.) *This vessel has been built in accordance with the accompanying approved plans, the Secretary's letters of the above mentioned dates, and in general conformity with the rules of the Society. The materials and workmanship used during the construction are of good quality.*

The approved plans 10 in number are herewith attached.

A letter is also attached from the Builder giving the owner's consent to the substitution of Steel wire in lieu of Manila ropes.

The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *✓* ft., R.Q.D. *✓* ft., Bridge *✓* ft., F'castle *✓* ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated *Complete shelter deck with tonnage opening aft.*

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 bks (Std) + Deck + Shelter Deck (Std)* *Tween deck B.H. in after hold dispensers with*

Official No. *129284*; Signal Letters *✓*

State if Machinery is fitted aft *Amidships*

How are the surfaces preserved from oxidation? Inside *Paint and Cement*

Outside *Paint*

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors *Cellular System*

Where fitted.	*Length. Feet.	Water Capacity. Tons.	Where fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	<i>143</i>	<i>380</i>	Fore peak tank,		
Double bottom, under Engines and Boilers,	<i>47-8</i>	<i>183</i>	After peak tank,		<i>28</i>
Double bottom, if under Engines only,	<i>✓</i>		Deep tank aft,		
Double bottom, if under Boilers only,	<i>✓</i>		Deep tank forward,		
Double bottom, forward,	<i>169</i>	<i>529</i>	Other tanks, if fitted,		
Total capacity of double bottom		<i>1092</i>	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks.

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

Order for Special Survey No. *4154*
Date *23 11 09*
No. *177* in builder's yard.
Dates of Surveys held while building
1910
Feb. 1. 4. 14. 22. 23. 25. Mar. 27. 15. 16. 17. 18. 22. Apr. 4. 11. 13. 18. 22. 26. May 2. 3. 9. 19. 27. 30. Jun 1. 2. 5. 6. 7. 10. 15. 27. Jul 5. 13. 17. 20. Aug 19. 22. 23. 24. 29. 30.
Total No. of Visits *43*

The amount of Entry Fee £ *5* : - : -

Fees applied for, *8-SEP-1910*

Certificate to be sent to *Newcastle-on-Tyne*

Special £ *142* : *18* : *6*

Received by me, *13-9-1910*

Travelling Expenses, if any £ : :

State whether the Vessel has been built under Special Survey *Yes*

I am of opinion this Vessel should be Classed *100 A1 shelter deck*

With, or without Freeboard, as condition of Class *With freeboard.*

Alex. Munro

Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Character assigned

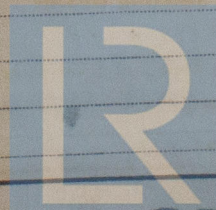
TUES. 13 SEP 1910

*100 A1
Shelter dk with fba*

Lloyd's at 10

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Lloyd's Register

Foundation

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