

Decks.

IRON OR STEEL STEAMER.

Received at London Office.

664.
FRI. JAN 31 1902

State of completion of report 20th January 1902
Survey held at West Hartlepool
the Steel Steamer MARIE Z MICHALINOS.
Rig Schooner
GROSS TONNAGE under Tonnage Deck 2863.59
Net Tonnage 3058.62
Less Crew Space 78.89
Less above Crown of Main Room 2979.43
Less above Crown of Engine Room 978.76
Less above Crown of Navigation Spaces 45.11
Net Tonnage 1955.86
Date, First Survey 16th July 1901 Last Survey 25th January 1902
Port of WEST HARTLEPOOL.
THREE DECKED VESSEL.
CLASS 10JA1
Master Caravallis
Year of appointment 1898
Built at West Hartlepool.
When built 1902 Launched 11th Dec. 1901
By whom built B. Gray & Co. Ltd.
Owners Michalinos & Co.
Managers (Where necessary to be entered in Reg. Book.)
Residence London
Port belonging to Piraeus
Destined Voyage Mediterranean If Surveyed while Building, Afloat, or in Dry Dock Yes

Feet.	Inches.	BREADTH—	Feet.	Inches.	DEPTH, ACTUAL—	Feet.	Inches.	No. of Decks with flat laid
329	11	Moulded	47	9 1/2	Top of Floors to top of Upper Dk. Beams	21	11	One
					Do. do. do. do. Main Dk. Beams			No. of Tiers of Beams Two & 1/2
Round of Upper Dk. Beam, Actual 12 ins.								

FRAMING.	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.	FORGINGS OR CASTINGS.	Inches in Ship.	Inches per Rule Or as Approved.
E, Angles, for 1/2 length <i>for 1/2 length</i> amidships	6 1/2	3 1/2	9	6 1/2	3 1/2	KEEL, Bar or Side Plates, depth and thickness	10 1/2 x 2 3/4	10 1/2 x 2 3/4
for 1/2 at each end			8		8	STEM, moulding and thickness	11 x 6	11 x 6
in way of Double Bottoms at Solid Floors ..	3 1/2	3 1/2	8	3 1/2	3 1/2	STERN-POST for Rudder do. do.	11 x 6	11 x 6
" " " " amidships <i>amidships</i>						" " " " for Propeller	11 x 6	11 x 6
se of Frames from moulding edge to	24		24			MAIN PIECE of Rudder, diameter at head	8 1/2	8 1/2
ding edge, all fore and aft	6 1/2	3 1/2	9	6 1/2	3 1/2	" " " " do. at heel	4 1/2	4 1/2
RESIDED FRAME, Angles	10	9 1/2	9	10	9	RUDDER, how constructed <i>Forged iron frame, plated</i>		
FRAMING, depth of girder	42		42		8	<i>Can the Rudder be unshipped afloat? Yes</i>		
RS, depth and thickness of Floor Plate	10	9 1/2	9	10	9	KEELSONS & STRINGERS.		
at mid-line for 1/2 length <i>amidships</i>	10	9 1/2	9	10	9	CENTRE LINE KEELSON, Vertical Plate above		
in way of Engines and Boilers	42		42		8	floors, Through Plate, or Intercoastal Plate)		
thickness at the ends of vessel	10	9 1/2	9	10	9	" Rider Plate		
depth at 1/2 the half breadth, as per Rule ..	10	9 1/2	9	10	9	" Bulb Plate to Intercoastal Keelson		
height extended at the Bilges	10	9 1/2	9	10	9	" Horizontal Plates on Floors	cellular double	
RS & BRACKETS in Cell Dble Bottoms	24		24			" Angles		
" " " " Distance apart	24		24			SIDE KEELSON, Angles		
RE GIRDER, in Double bottom, depth	42		42		12	" Bulb or Plate above floors, for	bottom all	
and thickness	4	4	9	4	9	" Intercoastal Plate, for	length	
" " " " Angles, Top	6 1/2	4	9	6 1/2	4	" Attached to outside Plating with Angle ..		
" " " " Bottom	Two	8	Two	8		BILGE KEELSON, Angles	fore and aft	
GIRDERS, number on each side & thickness	3 1/2	3 1/2	8	3 1/2	3 1/2	" Bulb or Plate above floors, for	length	
" " " " Angles	32		32		9	" Intercoastal Plate for	length	
IN PLATE, depth (exclusive of flange)	4	4	9	4	9	" Attached to outside Plating with Angle ..		
and thickness	36		36		10	BILGE STRINGER Angles		
" " " " Angles to Outside Plating	10	9 1/2	9	10	9	" Bulb Plate for	length	
BOTTOM PLATING, breadth and	10	9 1/2	9	10	9	" Intercoastal Plate for	length	
thickness of Middle Line Strake)	10	9 1/2	9	10	9	" Attached to outside Plating with Angle ..		
" " " " in Engine and Boiler space	8-7		8-7		8-7	2 SIDE STRINGERS Angles. (3 Strakes)	6 1/2	4 1/2
" " " " Remainder in Holds	7 1/2	3	9	7 1/2	3	" Bulb or Intercoastal Plate, for whole lng.	22	9
S, Upper Deck, Single Angle, Bulb	3 1/2	3 1/2	8	3 1/2	3 1/2	" Attached to outside plating with Angle	3 1/2	3 1/2
Angle, Plate or Tee Bulb	24		24			Upper Deck Stringer Plates, br'dth & thickness	47 1/2	10
Angles on upper edge	10 1/2		10 1/2		10	" Angle on ditto	4 1/2	4 1/2
Average space	3 1/2	3 1/2	8	3 1/2	3 1/2	" Tie Plates fore and aft, outside Hatchways	One strake + 2/16	7/16
S, Middle Deck, Single Angle, Bulb	48		48			" Deck, * Iron or Steel, for whole lng.	7/16	7/16
Angle, Plate or Tee Bulb	6	3	9	6	3	" Wood Deck, Material & thickness		
Angles on upper edge	24		24			Middle Deck Stringer Plate, br'dth & thickness	70	10
Average space	10		10			" Angles on ditto, No.	4.4	9
S, Lower Deck, Single Angle, Bulb	6	3	9	6	3	" Tie Plates outside Hatchways		
Angle, Plate or Tee Bulb	24		24			" Diagonal Tie Plates on Bns, No. & sps.		
Angles on upper edge	10		10			" Deck & Iron or Steel, for whole lng.		
Average space	6	3	9	6	3	" Wood Deck, Material & thickness		
S, Hold or Orlop Plate or Tee Bulb	6	3	9	6	3	Lower Deck Stringer Plate, br'dth & thickness		
Angle, Plate or Tee Bulb	24		24			" Angles on ditto, No.		
Angles on upper edge	10		10			" Tie Plates outside Hatchways		
Average space	6	3	9	6	3	" Deck, Material and thickness		
S, Poop Deck, Angle, Bulb Angle, Plate	6	3	9	6	3	Hold or Orlop Stringer Plate, br'dth & thickness		
Angle, Plate or Tee Bulb	24		24			" Angles on ditto, No.		
Angles on upper edge	10		10			" Tie Plates outside Hatchways		
Average space	6	3	9	6	3	" Deck, Material and thickness		
S, Bridge Deck, Angle, Bulb Angle, Plate	6	3	9	6	3	Poop Deck Stringer Plate, br'dth & thickness		
Angle, Plate or Tee Bulb	24		24			" Angle on ditto	3.3	5/16
Angles on upper edge	10		10			" Tie Plates	7	3.3
Average space	6	3	9	6	3	" Deck, Material and thickness	Iron	5/16
S, Forecastle Deck, Angle, Bulb Angle,	6	3	9	6	3	Bridge Deck Stringer Plate, br'dth & thickness	67	5/16
Plate or Tee Bulb	24		24			" Angle on ditto	3 1/2	3 1/2
Angles on upper edge	10		10			" Tie Plates	10	3 1/2
Average space	6	3	9	6	3	" Deck, Material and thickness	Iron	7/16
RS, In 'tween Deck, size and spacing	2 1/2	48	2 1/2	48		Forecastle Deck Stringer Plate, br'dth & th'kns	36	5/16
" " " " Hold	4	48	4	48		" Angle on ditto	3 1/2	3 1/2
" " " " Quarter 'tween Dks., " " ..	2 1/2	48	2 1/2	48		" Tie Plates	Plated at centre	
" " " " in Hold	4	48	4	48		" Deck, Material and thickness	P. Rim	3
WEB FRAMES, In Fore Body, No. and spacing	2 1/2	48	2 1/2	48		BULKHEADS.		
" " " " br'dth & thickness	4	48	4	48		Number.		
" " " " No. of Side Stringers	2 1/2	48	2 1/2	48		In Vessel.		
" "								

PLATING.										RIVETING.																																																																																												
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.				BUTTS.																																																																																											
	AMIDSHIP.	FORWARD.	AFT.	AMIDSHIP.	FORWARD.	AFT.	Single or Double.	Width of Lap.	Width of Lap.	Width of Lap.	Width of Lap.	Width of Lap.	Width of Lap.	Width of Lap.	Width of Lap.																																																																																							
FLAT PLATE KEEL	36	19	12	12	86	19	Don't	6	1	4	4R	1	4	1	4	Whole																																																																																						
Carriage of A Strake	44	18	11	11	44	13	"	5 1/2	7/8	3 3/4	3R	7/8	3 3/4	"	"	"																																																																																						
Quadrant thickness in way of Double Bottom.	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"																																																																																						
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Sheer	44	13	10	10	44	13	"	"	"	"	"	"	"	"	"	"																																																																																						
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R	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"																																																																																						
DOUBLING of Flat Plate Keel	Compensated for as approved																																																																																																					
Length and thickness of Sheerstrakes	Doubled full width at ends of Bridge House.																																																																																																					
POOP SIDES	1140 7 7																																																																																																					
BRIDGE SIDES	1140 7 7																																																																																																					
FORECASTLE SIDES	1140 7 7																																																																																																					
<p>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. <u>Mild Steel</u></p> <p><u>Dorman, Long & Co. Corsetts,</u></p> <p><u>South Durham I & S. Co.</u></p> <p><u>Iron, D.O. Do. John Hill & Co.</u></p> <p>Has the Steel been tested as required by the Rules? <u>Yes</u></p>																																																																																																						
<p>FRAMES extend in one length from <u>center line</u> to <u>margin plate and thence to gunwale</u></p> <p>REVERSED FRAMES on floors and frames extend from <u>center line to margin plate and thence to upper deck,</u></p> <p><u>alternately to forecastle deck, double within tank sides in machinery space.</u></p>																																																																																																						
MASTS, SPARS, &c.																																																																																																						
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<p>Bowsprit. <u>✓</u></p> <p>Topmasts, Yards and Remainder of Spars <u>Pitch pine</u></p> <p>Rigging, Material and Size, Shrouds <u>Bobbin wire 3/2</u></p> <p>Sails. <u>One</u> Suit of <u>Sails</u> and the following spare sails <u>4 1/2</u></p>																																																																																																						
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<p>Boats <u>Two Lifeboats and two others</u></p> <p>Pumps, Number <u>One</u> <u>Regular manual pump connected to main line of steam engine</u></p> <p>Windlass <u>is</u> <u>in</u> <u>the</u> <u>main</u> <u>line</u> <u>of</u> <u>steam</u> <u>engine</u></p> <p>Engine Room Skylights. How constructed? <u>Steel plates and angles and lead flaps</u></p> <p>What arrangements for deadlights in bad weather? <u>Shade flaps and bulls eyes</u></p> <p>Coal Bunker Openings. How constructed? <u>Plates and angles</u> How are lids secured? <u>Bottomed down</u> Height above deck? <u>16"</u></p> <p>Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. <u>On each side, 8 Scuppers, 4 Freeing Ports 30 x 15</u></p> <p>Ceiling in Holds, thickness and material <u>2 1/2 W. Pine</u> Ceiling 'tween Decks, thickness and material <u>2 W. Pine</u></p> <p>Cargo Hatchways. How formed? <u>Plates and angles</u> Hatches, If strong and efficient? <u>Yes</u></p> <p>State size No. 1 Hatch (Forward) <u>24-0 x 15-0</u> No. 2 Hatch <u>24-0 x 15-0</u> No. 3 Hatch <u>10-0 x 15-0</u> No. 4 Hatch <u>24-0 x 15-0</u></p> <p>Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch <u>Hatches 1, 2, 4 and 5 have web plates, three fore and afters to each hatch.</u></p> <p>No. of Breasthooks <u>Eight</u> No. of Crutches <u>Two</u></p> <p>Bulwarks, height above deck and description <u>4-2 x 5 1/2 Steel</u> Main Rail, material and size <u>6 1/2 x 3 1/2 Steel B.A.</u></p> <p>The above is a correct description. <u>W. H. Brown & Co. Limited</u> Secretary. <u>E. B. Hambro & Co. Limited</u> Surveyors to Lloyd's Register of British and Foreign Shipping.</p>																																																																																																						

Correspondence. State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case)

July 3, 5, 6, 9, 11, 19, 22, Sept. 25, 1901. 31-12-01 2-23-01

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 facing surfaces? Yes Do any rivets break into or through the seams or butts of plating? a 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. 23, par. 24)? Yes State results of tests Satisfactory

Have all the girtways been tested as required by the Rules (Sec. 23, par. 25)? Yes State results of tests Satisfactory

General Remarks (State quality of workmanship, &c.) The workmanship is good and the vessel has been built in accordance with the approved drawings (4 in 1/2) which together with the foregoing report are attached hereto.

Drawings: Midship Section, Profile, Sections abt. collision bulkhead, Pumping Plan, Report on Ships for jigs.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 20-0 ft., R.Q.D. or Break ✓ ft., Bridge Dk. 14-0 ft., F'castle 27-8 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) 1. 5K (Iron), 2 to B and deep framing

Official No. ✓; Signal Letters ✓

How are the surfaces preserved from oxidation? Inside Portland Cement Paint Outside Paint

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system with subdivisions Yes

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
Feet.	Tons.	Feet.	Tons.		
Double bottom, aft.	102-0	358	Fore peak tank,	✓	
Double bottom, under Engines and Boilers,	44-0	153 1/2	After peak tank,		37 1/2
Double bottom, if under Engines only,			Midship deep tank,	✓	
Double bottom, if under Boilers only,			Other tanks, if fitted,	✓	
Double bottom, forward,	132-0	411	(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. 1861

Date 13th Aug 1901

No. 649 in builder's yard.

1901. July 11, 12, 23, 30, Aug. 12, 15, 20, 22, 27, Sept. 2, 9, 12, 13, 16, 24, 30, Oct. 1, 3, 5, 8, 9, 10, 12, 14, 15, 17, 19, 21, 23, 24, 26, Nov. 4, 6, 11, 14, 15, 19, 25, 27, 29, Dec. 4, 9, 10, 18, 20, 1902 Jan. 6, 8, 14, 17, 20, 22, 23, 24, 25.

Total No. of Visits 55

The amount of Entry Fee £ 5 : : Fees applied for, 18-1-1902

Special Survey Fee £ 99 : : Received by me, 29-1-1902

Travelling Expenses, if any £ : : 29-1-1902

State whether the Vessel has been built under Special Survey Yes

I am of opinion this Vessel should be Classed 100A1 3 str rule. E. B. Hambro & Co. Limited Surveyors to Lloyd's Register of British and Foreign Shipping.

Without Freeboard, as condition of Class.

Committee's Minute TUES. FEB 4 1902

Character assigned 100A1 Steel

W. H. Brown & Co. Limited Secretary. E. B. Hambro & Co. Limited Surveyors to Lloyd's Register of British and Foreign Shipping.