

Steel IRON SHIP.

B 20508
WEDNESDAY 31 MARCH

No. 20508 Survey held at Newcastle Date, First Survey 23rd Feb'y 1887 Last Survey 22nd July 1887

On the Screw Steamer "Acme" Schooner

TONNAGE under 1665.27 ONE, OR TWO DECKED, THREE, DECKED VESSEL, SPAR, OR AWNING-DECKED VESSEL.

Ditto of Third Spar, 274.67 Half Breadth (moulded) 18.75

Ditto of Poop, or 936.99 Depth from upper part of Keel to top of Upper Deck Beams 22.42

Ditto of Houses 8.59 Girth of Half Midship Frame (as per Rule) 38.00

Ditto of Forecastle 12.86 1st Number 79.12

Gross Tonnage 2145.52 1st Number, if a 3-Decked Vessel deduct 7 feet

Less Crew Space 61.43 Length 273.5

Less Engine Room 686.57 2nd Number 216.52

Register Tonnage 1397.52 Proportions—Breadths to Length 7.2

as cut on Beam 1397.52 Depths to Length—Upper Deck to Keel 12.19

Main Deck ditto

Master W. R. Bentley 1887-1887

Built at Jarrow on Tyne

When built 1887 Launched June 4/87

By whom built Palmers & Co.

Owners Newman & Dale

Residence Quay-side, Newcastle

Port belonging to London

Destined Voyage Genoa

If Surveyed while Building, Afloat, & in Dry Dock.

LENGTH on deck as 273 6 Breadth—Moulded 37 6 DEPTH top of keel to upper 19 0 Power of Engines 200 No. of Decks with flat laid 2 No. of Tiers of Beams 2 3 10

Dimensions of Ship per Register, length, 275.3 breadth, 37.9 depth, 19.0

KEEL, depth and thickness Side base 9 1/2 x 1 3/8 as per sketch

STEM, moulding and thickness 9 x 2 1/2 9 x 2 1/2

STERN-POST for Rudder do. do. 9 x 5 1/2 9 x 2 1/2

" for Propeller 24 ins 24 ins

Distance of Frames from moulding edge to moulding edge, all fore and aft

FRAMES, Angle Iron, for 1/2 length amidships 5 3 8 5 3 8

Do. for 1/4 at each end 5 3 7 5 3 7

REVERSED FRAMES, Angle Iron 3 1/2 3 8 3 1/2 3 8

FLOORS, depth and thickness of Floor Plate at mid line for half length amidships

" thickness at the ends of vessel with solid bracket

" depth at 1/2 the half-bdth. as per Rule plates on alternate frames

" height extended at the Bilges. as per middle section

BEAMS, Upper, Spar, or Awning Deck 6 3 10 6 3 10

Single or double Angle Iron, Plate or Tee Bulb Iron

Single or double Angle Iron on Upper edge

Average space... on every frame

BEAMS, Main, or Middle Deck

Single or double Angle Iron, Plate or Tee Bulb Iron

Single or double Angle Iron on Upper Edge

Average space... as per Profile

BEAMS, Hold, or Orlop

Single or double Angle Iron, Plate or Tee Bulb Iron

Single or double Angle Iron on Upper Edge

Average space... as per Profile

KEELSONS Centre line, single or double plate, 38 10 38 10

Box or Intercoastal Plates

Rider Plate Cellular available bottom

Bulb Plate to Intercoastal Keelson and connected by solid

Angle Irons Bracket plates and

Double Angle Iron Side Keelson strong knee plates on

Side Intercoastal Plate alternate frames with

do. Angle Irons double angles

Attached to outside plating with angle iron 4 4 9 4 4 9

BILGE Angle Irons

do. Bulb Iron 5 1/2 4 9 5 1/2 4 9

do. Intercoastal plates riveted to plating for length 8

BILGE STRINGER Angle Iron 3 3 7 3 3 7

Intercoastal plates riveted to plating for 1/2 length 5 1/2 4 9 5 1/2 4 9

SIDE STRINGER Angle Irons

The FRAMES extend in one length from Bilge to gunwale

The REVERSED ANGLE IRONS on floors and frames extend from middle line to Hold or Stringer angles and to gunwale alternately

KEELSONS. Are the various lengths of Plates and Angle Irons properly connected? Yes And butts properly shifted? Yes

PLATING. Garboard, double riveted to Keel, with rivets 1 1/8 in. diameter, averaging 5 ins. from centre to centre.

Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 7/8 in. diameter, averaging 3 3/8 ins. from centre to centre.

Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 7/8 in. diameter averaging 3 1/4 ins. from centre to centre.

Butts of all Strakes at Bilge for 1/2 length, treble riveted with Butt Straps 3/4 in. thicker than the plates they connect.

Edges from Bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets 7/8 in. diameter, averaging 3 3/8 ins. from cr. to cr.

Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 7/8 in. diameter, averaging 3 1/4 ins. from cr. to cr.

Edges of Main Sheerstrake, double or single riveted. Upon Sheerstrake, double or single riveted.

Butts of Main Sheerstrake, treble riveted for 1/2 length amidships. Butts of Upper or Spar Sheerstrake, treble riveted for length amidships.

Butts of Main Stringer Plate, treble riveted for 1/2 length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for length.

Breadth of laps of plating in double riveting 5 1/4 Breadth of laps of plating in single riveting 4 1/2

Butt Straps of Keelsons, Stringer and Tie Plates, treble or double Riveted? throughout No. of Breasthooks, 5 Crutches, 3 & 2 transoms

What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Palmers & Co. throughout

Manufacturer's name or trade mark, The above is a correct description.

Builder's Signature, W. Hill

Flat Keel Plates, breadth and thickness 38 12 36 12

PLATES in Garboard Strakes, br'dth & thickness 38 12 36 12

" From Garboard to upper part of Bilges... 10 11 10 11

" Of d'bling at Bilge, or increased thickness, and length applied

" From up. prt of Bilge to l. edge of Sh'rstrake... 10 11 10 11

" Main Sheerstrake, breadth and thickness... 4 2 15 40 15 10

" Of d'bling at Sh'stk. & lng. applied 3/4 length

" From M'n. to Up. or Spar Dk. Sh'rstrake... 10 11 10 11

" Up. or Spar Dk Sh'rstrake, br'dth & thicken'ss... 10 11 10 11

Butt Straps to outside plating, breadth & thickness 19 10 19 9 10 10

Lengths of Plating 6 frame spaces

Shifts of Plating, and Stringers 2 frame spaces

Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness... 39 10 39 10

Angle Iron on ditto 5 1/2 x 4 x 9 5 1/2 x 4 x 9

Tie Plates fore and aft, outside Hatchways steel deck

Diagonal Tie Plates on Beams No. of Pairs

Flat of Up., Spar, or Awning Dk. all for cap 6 6

How fastened to Beams Riveted

Stringer Plate on ends of Main or Middle Deck

Beams, breadth and thickness in way 37 9 37 9

Is the Stringer Plate attached to the outside plating? Yes

Angle Iron on ditto, No. 3 1/2 x 4 x 9 3 1/2 x 4 x 9

Tie Plates, outside Hatchways and 3 1/2 x 3 1/2 x 7 3 1/2 x 3 1/2 x 7

Diagonal Tie Plates on Beams, No. of pairs

Flat of Middle Deck do. do.

How fastened to Beams

Stringer Plates on ends of Lower Deck, Hold or Orlop Beams 37 9 37 9

Is the Stringer Plate attached to the outside plating? Yes

Angle Iron on ditto, No. 3 1/2 x 4 x 9 3 1/2 x 4 x 9

Stringer or Tie Plates, outside Hatchways 3 1/2 x 3 1/2 x 7 3 1/2 x 3 1/2 x 7

Flat of Lower Deck

Ceiling betwixt Decks, thickness and material 2 1/2 3 1/2

" in hold do. do.

Main piece of Rudder, diameter at head 7 7

do. at heel 3 1/2 3 1/2

Can the Rudder be unshipped afloat? Yes

Bulkheads No. 5 No. per Rule 4

Thickness of 7/20 x 6/20

Height up upper deck

How secured to sides of ship Between double frames

Size of Vertical Angle Irons 5 x 3 x 8 1/2 and distance apart 30 ins.

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

Riveted through plates with 7/8 in. Rivets, about 6 1/2 apart.

Hold or Stringer angles and to gunwale

And butts properly shifted? Yes

No. of Breasthooks, 5 Crutches, 3 & 2 transoms

Surveyor's Signature, James Gibson

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

Foundation

NWC 797-0243 1/2

Robert Edmund Taylor & Son

19, Old Street, Goswell Road, E.C.1, London.

for Palmers Shipbuilding

Report No. 21017

State clearly where plating is of alternate thickness—as distinguished from diminished thickness at ends of vessel.

* If Iron Deck, state if whole or part, and if wood deck is laid thereon.

Workmanship. Are the butts of plating planed or otherwise fitted? *all Butts & Edges of outer strakes Planed*
Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? *Yes*
Are the fillings between the ribs 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 very well*
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 the plating? *a very few*

Masts, Bowsprit, Yards, &c., are *Iron* in *good* condition, and sufficient in size and length. If of Iron or Steel give Scantlings of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowsprit are constructed, showing the number of Plates and Angle Irons, mode of riveting, quality of Materials, and if stamped with Maker's name.
State also Length and Diameter of Lower Masts and Bowsprit *Main Mast 66ft. x 22" diam. Foremast 74.0*

X 25" diam. Seams double wetted and the Butts treble wetted with straps 1/16 thicker than plates they connect; Plates 11ft. long and 5/16 in thickness; doubled at deck with 6/16 plates. Makers of Iron Palmers Co. (P)

NUMBER for EQUIPMENT 24087		Fathoms.	Inches.	Test per Certificate.	Inches per Rule.	Machine where Tested & Supplied.	ANCHORS.	N ^o .	Weight.	Ex. Stock.	Test per Certificate.	Weight req'd per Rule.	Machine where Tested & Supplied.
SAILS.							Bower Anchors						
CABLES, &c.							(State Machine where Tested, Date, or No. of Certificate, & Name of Superintendent.)						
Fore Sails,	Chain	135	1 3/4	55 1/8	1 1/2	W. & A. P. H. 5440, 5436, 5435, 5434, 5433, 5432, 5431, 5430, 5429, 5428, 5427, 5426, 5425, 5424, 5423, 5422, 5421, 5420, 5419, 5418, 5417, 5416, 5415, 5414, 5413, 5412, 5411, 5410, 5409, 5408, 5407, 5406, 5405, 5404, 5403, 5402, 5401, 5400, 5399, 5398, 5397, 5396, 5395, 5394, 5393, 5392, 5391, 5390, 5389, 5388, 5387, 5386, 5385, 5384, 5383, 5382, 5381, 5380, 5379, 5378, 5377, 5376, 5375, 5374, 5373, 5372, 5371, 5370, 5369, 5368, 5367, 5366, 5365, 5364, 5363, 5362, 5361, 5360, 5359, 5358, 5357, 5356, 5355, 5354, 5353, 5352, 5351, 5350, 5349, 5348, 5347, 5346, 5345, 5344, 5343, 5342, 5341, 5340, 5339, 5338, 5337, 5336, 5335, 5334, 5333, 5332, 5331, 5330, 5329, 5328, 5327, 5326, 5325, 5324, 5323, 5322, 5321, 5320, 5319, 5318, 5317, 5316, 5315, 5314, 5313, 5312, 5311, 5310, 5309, 5308, 5307, 5306, 5305, 5304, 5303, 5302, 5301, 5300, 5299, 5298, 5297, 5296, 5295, 5294, 5293, 5292, 5291, 5290, 5289, 5288, 5287, 5286, 5285, 5284, 5283, 5282, 5281, 5280, 5279, 5278, 5277, 5276, 5275, 5274, 5273, 5272, 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5105, 5104, 5103, 5102, 5101, 5100, 5099, 5098, 5097, 5096, 5095, 5094, 5093, 5092, 5091, 5090, 5089, 5088, 5087, 5086, 5085, 5084, 5083, 5082, 5081, 5080, 5079, 5078, 5077, 5076, 5075, 5074, 5073, 5072, 5071, 5070, 5069, 5068, 5067, 5066, 5065, 5064, 5063, 5062, 5061, 5060, 5059, 5058, 5057, 5056, 5055, 5054, 5053, 5052, 5051, 5050, 5049, 5048, 5047, 5046, 5045, 5044, 5043, 5042, 5041, 5040, 5039, 5038, 5037, 5036, 5035, 5034, 5033, 5032, 5031, 5030, 5029, 5028, 5027, 5026, 5025, 5024, 5023, 5022, 5021, 5020, 5019, 5018, 5017, 5016, 5015, 5014, 5013, 5012, 5011, 5010, 5009, 5008, 5007, 5006, 5005, 5004, 5003, 5002, 5001, 5000, 4999, 4998, 4997, 4996, 4995, 4994, 4993, 4992, 4991, 4990, 4989, 4988, 4987, 4986, 4985, 4984, 4983, 4982, 4981, 4980, 4979, 4978, 4977, 4976, 4975, 4974, 4973, 4972, 4971, 4970, 4969, 4968, 4967, 4966, 4965, 4964, 4963, 4962, 4961, 4960, 4959, 4958, 4957, 4956, 4955, 4954, 4953, 4952, 4951, 4950, 4949, 4948, 4947, 4946, 4945, 4944, 4943, 4942, 4941, 4940, 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4773, 4772, 4771, 4770, 4769, 4768, 4767, 4766, 4765, 4764, 4763, 4762, 4761, 4760, 4759, 4758, 4757, 4756, 4755, 4754, 4753, 4752, 4751, 4750, 4749, 4748, 4747, 4746, 4745, 4744, 4743, 4742, 4741, 4740, 4739, 4738, 4737, 4736, 4735, 4734, 4733, 4732, 4731, 4730, 4729, 4728, 4727, 4726, 4725, 4724, 4723, 4722, 4721, 4720, 4719, 4718, 4717, 4716, 4715, 4714, 4713, 4712, 4711, 4710, 4709, 4708, 4707, 4706, 4705, 4704, 4703, 4702, 4701, 4700, 4699, 4698, 4697, 4696, 4695, 4694, 4693, 4692, 4691, 4690, 4689, 4688, 4687, 4686, 4685, 4684, 4683, 4682, 4681, 4680, 4679, 4678, 4677, 4676, 4675, 4674, 4673, 4672, 4671, 4670, 4669, 4668, 4667, 4666, 4665, 4664, 4663, 4662, 4661, 4660, 4659, 4658, 4657, 4656, 4655, 4654, 4653, 4652, 4651, 4650, 4649, 4648, 4647, 4646, 4645, 4644, 4643, 4642, 4641, 4640, 4639, 4638, 4637, 4636, 4635, 4634, 4633, 4632, 4631, 4630, 4629, 4628, 4627, 4626, 4625, 4624, 4623, 4622, 4621, 4620, 4619, 4618, 4617, 4616, 4615, 4614, 4613, 4612, 4611, 4610, 4609, 4608, 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3611, 3610, 3609, 3608, 3607, 3606, 3605, 3604, 3603, 3602, 3601, 3600, 3599, 3598, 3597, 3596, 3595, 3594, 3593, 3592, 3591, 3590, 3589, 3588, 3587, 3586, 3585, 3584, 3583, 3582, 3581, 3580, 3579, 3578, 3577, 3576, 3575, 3574, 3573, 3572, 3571, 3570, 3569, 3568, 3567, 3566, 3565, 3564, 3563, 3562, 3561, 3560, 3559, 3558, 3557, 3556, 3555, 3554, 3553, 3552, 3551, 3550, 3549, 3548, 3547, 3546, 3545, 3544, 3543, 3542, 3541, 3540, 3539, 3538, 3537, 3536, 3535, 3534, 3533, 3532, 3531, 3530, 3529, 3528, 3527, 3526, 3525, 3524, 3523, 3522, 3521, 3520, 3519, 3518, 3517, 3516, 3515, 3514, 3513, 3512, 3511, 3510, 3509, 3508, 3507, 3506, 3505, 3504, 3503, 3502, 3501, 3500, 3499, 3498, 3497, 3496, 3495, 3494, 3493, 3492, 3491, 3490, 3489, 3488, 3487, 3486, 3485, 3484, 3483, 3482, 3481, 3480, 3479, 3478, 3477, 3476, 3475, 3474, 3473, 3472, 3471, 3470, 3469, 3468, 3467, 3466, 3465, 3464, 3463, 3462, 3461,							

for over half length amidships; The after peak bulkhead is extended to the Poop deck and the flat of the Poop between the peak bulkhead and the Poop front is plated over. The Freeboard as set forth in the Secretary's letter dated ^{24 Feb 1887} 9th Feb. 86 has been marked on the vessel's sides and verified as follows; Winter months $2' 1\frac{1}{2}"$ Summer $1' 10\frac{1}{2}"$.

The crew are berthed in the Bridge but a gangway is fitted from the Bridge to the top of the open Forecastle for the accommodation of the Crew. The inner strakes of the shell plating doubled for about 8 ft from the stem on each side.

James Libby

The two best Bower Anchors are of cast Steel, Wastney Smith's Patent, and have been subjected to a drop test of 15 feet on a solid Bed, in addition to the usual public Test. certificates of which have been produced.

J. L.



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Lloyd's Register
Foundation

NWC797-0243 2/2

NWC711 OCT 6