

24/2/25
(Ken 25/8/49)
L. S.

Tonnage under Tonnage Deck }	900.70
Ditto of Timber, Spar, or Staining Deck. }	114.67
tto of Poop, or Raised Qr. Dk. }	94.34
tto of Houses on Deck }	36.04
tto of Forecastle Hatchway }	30.00
Gross Tonnage	1271.24
Less Crew Space	46.76
	1224.51
Less Engine Room	406.01
Register Tonnage as cut on Beam }	017.70

Built at *Hartlepool*
When built *1879* Launched *19 July*
By whom built *E. & Wither*
Owners *Steel Young & Co.*
Port belonging to *London*
Destined Voyage *Malaga*
If Surveyed while Building, Afloat, or in Dry Dock

Dimensions of Ship per Register, length, 230-5 breadth, 31-5 depth, 17-4

			(Class 1000)		
Inches.	Inches.	16ths.	Inches	Inches	16ths
In Ship.	In Ship.	In Ship.	per Rule	per Rule	per Rule

REVERSED FRAMES, Angle Iron 3 3 6 3 3 6

thickness at the ends of vessel	...	...	...	...
depth at $\frac{3}{4}$ the half-bdth. as per Rule	...	12	9 1/2	...
height extended at the Bilges...	...	30	30	...

Single or double Angle iron on upper edge ... 23 ... 23 ...

Single, or double Angle Iron, on Upper Edge ...									
Average space... ..	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5

Average space...	15	11	15	11
KEELSONS Centre line, single or double plate, {	15	11	15	11
Intersecting plates				

"	Angle Irons	B	3 1/2	81	7	3 1/2	61
"	Double Angle Iron Side Keelson	B	3 1/2	17	5	3 1/2	17
				6			6

E Angle Irons	...	...	...	...	...	5	3 1/2	0	5	3 1/2	0
do. Bulb Iron	...	...	...	...	...	7 1/2	+	y	7 1/2	+	y

[illegible]

Transoms, material. Knight-heads. Hawse Timbers. *Planks*

The **REVERSED ANGLE IRONS** on floors and frames extend across middle

" **Edges of Garboards** and to upper part of Bilge, worked clencher, double riveted ;

Edges from Bilge to Main Sheerstrake, worked cleaner, double riveted

Butts from Bilge to Main Sheerstrake, worked carvel, double riveted

Upper Sh

" Butts of Main Stringer Plate, treble riveted for full length and ships. 2
" Breadth of laps of plating in double riveting 5/4 1 1/4 3/4 Breadth of laps of plating 1 3/4

reams of the various Decks, how secured to the sides? *End turned to*

The above is a correct description.

Elder's Signature, Carl A. Wray

Flat Keel Plates, breadth and thickness ...		34	11	34	11
PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges		9x10		9x10	
" of doubling at Bilge, or increased thickness, and length applied	half R. strake	11		11	
" fm up. part of Bilge to lr. edge of Sh'rstrake.		9x10		9x10	
" Main Sheerstrake, breadth and thickness of d'bling at Sh'rstrake, & length applied from Mn. to Upr. or Spar Dk. Sh'rstrake.		36	12	36	12
" Up. or Spar Dk Sh'rstrake, brdth & thickness					
Butt Straps to outside plating, breadth & thickness		9 3/4 x 1 1/4 x 10 x 9		9 3/4 x 1 1/4 x 12 x 9	
Lengths of Plating ...		11 1/2		9 1/2	
Shifts of Plating, and Stringers ...		4 6 1		4 6 1	
Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness...		32 1/2	9	32 1/2	9
Angle Iron on ditto ...		5 x 3 1/2 x 0		5 x 3 1/2 x 0	
Tie Plates fore and aft, outside Hatchways	Iron Deck				
Diagonal Tie Plates on Beams No. of Pairs					
Planksheer material and scantling ...					
Waterways do. do. ...					
Flat of Upper Deck do. do. ...					
How fastened to Beams ...	5/10 rivets			5/10	
Stringer Plate on ends of Main or Middle Deck } Beams, breadth and thickness }					
Is the Stringer Plate attached to the outside plating?					
Angle Irons on ditto, No. ...					
Tie Plates, outside Hatchways ...					
Diagonal Tie Plates on Beams, No. of pairs					
Waterways materials and scantlings ...					
Flat of Middle Deck do. do. ...					
How fastened to Beams ...					
Stringer Plates on ends of Lower Deck, Hold or Orlop Beams ...		29	0	29	0
Is the Stringer Plate attached to the outside plating?					
Angle Irons on ditto, No. 2 ...		3 1/2	3 1/2 x 0	3 1/2 x 3 1/2 x 0 1/2	
Stringer or Tie Plates, outside Hatchways ...					
Flat of Lower Deck ...					
Ceiling betwixt Decks, thickness and material ...					
" in hold do. do. ...		2 1/2	4 in	2 1/2	
Main piece of Rudder, diameter at head ...		5 1/2		5 1/2	
do. at heel ...		3		3	
Can the Rudder be unshipped afloat?					
Bulkheads No. 4 Thickness of			6 x 5		6 x 5
" Height up	Main Deck, after one to Cabin Deck				
" How secured to sides of ship	to double frames				
" Size of Vertical Angle Irons	3 x 3 x 6/16 and distance apart			30	ins.
" Are the outside Plates doubled two spaces of Frames in length?	Yes				

Riveted through plates with $\frac{7}{8}$ in. Rivets, about $\frac{1}{2}$ apart.

fine to *above hold beam stingers* and to *gunwale* alternately
Yes And butts properly shifted? *Yes*

ing 5 5/8 ins. from centre to centre.

th rivets $\frac{3}{4} \times \frac{7}{16}$ in. diameter averaging $3\frac{1}{2}$ ins. from centre to centre.

Butt Straps $1\frac{1}{2}$ thicker than the plates they connect.
riveted; with rivets $7/10 \times 3/4$ in. diameter, averaging $330 \times 3\frac{1}{2}$ ins. from cr. to cr.

with rivets $7/16$ in. diameter, averaging $3/4$ ins. from cr. to cr.
~~strake, double or single riveted.~~

Butts of Upper or Spar Sheerstrake, treble riveted.....length amidships.
Butts of Upper or Spar Stringer Plate, treble riveted for.....length.

ing in single riveting

if necessary.) Measured across the angle beams
No. 8 No. of Brooches 6 Crutches Three

Plates, Outside Plating, &c. ? *Good*

no. Harstford, Md. 1. 60

or's Signature, *S. J. Gladstone*

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

IRON 487-0149

Workmanship. Are the butts of plating planed or otherwise fitted? *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? *Solid pieces*
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 the plating? *A few in butts* 24365 *Sum*

Masts, Bowsprit, Yards, &c., are *None* 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 60 ft 6 in diameter 19 in fore mast 69 ft 6 in*
Dia 19 in

NUMBER for EQUIPMENT		16326		Fathoms.	Inches.	Test per Certificate.	Inches per Rule.	Machine where Tested & Suprntd.	ANCHORS.	N ^o .	Weight. Ex. Stock.	Test per Certificate.	W'ght req'd per Rule.	Machine where Tested & Suprntd.	
SAILS.		CABLES, &c.													
N ^o .	Chain	.....		240	1 7/8	40-10-0	240 1/16	40 5/16	Bower Anchors	3	22-0-9	22-9-1-14	21-0-0	21-12-0-0
	Fore Sails,	(State Machine where Tested, Date, or No. of Certificate, & Name of Superintdt.)		Dudley 12-15 July 1879					(State Machine where Tested, Date, or No. of Certificate, & Name of Superintdt.)		21-2-25	22-3-3-0	21-0-0	21-12-0-0	
	Fore Top Sails,	Iron Str'm Chain		17 1/2	15/16	15-16-0-0	75 1/2 15/16	15 John	Dudley 12 July 1879		10-0-10	19-2-0-21	17-3-11	10-10-0-0	
	Fore Topmast Stay Sails,	Ditto do.		Dudley 15 July 1879					D. G. Lewis						
		Hmpn Strm Chl					90 1/2 10 1/2		Stream	...	1	7-2-5	9-15-3-21	7-1-0	9-10-0-0
		Hawser		90 1/2	3 1/2		90 1/2 9		Kedge	...	1	3-0-21	5-14-1-14	3-2-0	5-10-0-0
	Main Sails,	Towlines		190 1/2	2 1/2				Ditto	...	1	1-3-7	4-7-0-21	1-3-0	4-4-0-0
	Main Top Sails,	Warp		80 "	6 3/4		90 1/2 5 1/2								
	and	quality		80	5										

Standing and Running Rigging *Wire 2 Hemp* sufficient in size and *Good* in quality. She has *Four* Long Boats and *Good*
The Windlass is *Good* Capstan *Good* and Rudder *Good* Pumps *4 of 6 inch Metal*
Engine Room Skylights.—How constructed? *5/16 bonings 2 3 in lead* How secured in ordinary weather? *Bulls eyes*
What arrangements for deadlights in bad weather? *Bulls eyes*
Coal Bunker Openings.—How constructed? *Non bonings* How are lids secured? *Nails* Height above deck? *12 1/2 inches*
Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea? *Ports & Scuppers*

Cargo Hatchways.—How formed? *6/16 Plates*
State size Main Hatch *19 ft 4 in 11 ft bonings 30 in* Fore hatch *7 ft 0 in 7 ft 9 in bonings 30 in* Quarter hatch *19 ft 2 in 11 ft bonings 24 in*
If of extraordinary size, state how framed and secured?
What arrangement for shifting beams? *One shifting web beam in each long hatchway*
Hatches, If strong and efficient? *2 1/2 Pine*

Order for Special Survey No. <i>734</i>	DATES of surveys held while building as per Sec 18.	1st. On the several parts of the frame, when in place, and before the plating was wrought	Special Survey Date of Survey <i>1879</i>
Date <i>20 Feb 1879</i>		2nd. On the plating during the process of riveting	<i>Feb 26-27 March 4-10 April 2-4 23-29 May 1-7</i>
Order for Ordinary Survey No.		and before the decks were laid....	
Date		4th. When the ship was complete, and before the plating was finally coated or cemented..	<i>Aug 13-12-15-16</i>
No. <i>82</i> in builder's yard.		5th. After the ship was launched and equipped	

General Remarks (State quality of workmanship, &c.) *Workmanship & material good*
Is fitted with long Raised Quarter Deck Bridge & Forecastle frames all to the top height.
Beams of R. Deck 5+3+7/16 twelve at after end 7+7/16. Double angles at top edges 3+3+6/16 Stringer
plates on end 3 1/2+9/16 Angles on D. 5+3 1/2+8/16. Tie plates 11+8/16. Plating outside 9/16-8/16+7/16. Deck 6/16
4+2 ft from break. Planked over at after end with 3 1/2 7/16 Forecastle beams 6+6/16 bulbs, Double
Angles 2 1/2+2 1/2+5/16. Stringer plates on end 10 1/2+6/16 Angles on D. 3+3+6/16. Tie plates 8 1/2+6/16. Plating on
6/16 Deck 3 in Y. Pine. Wall sh. tanks fitted in fore & after hold frames cut connection made
with three plates. Side plates 7/16 Angles on D. 4+3+7/16 Web plates 6/16 Angles on D. 3+2 1/2+5/16
at plating 6/16. Additional strengthening at break of Raised Deck. Main Deck Stringer
plates extend 7 frame spaces abaft break. Raised D. 4 before. Hold beam stringer over 16 ft
Meers trunks & strakes above increased 1/16 in thickness. Deck house at after end 3 1/2+14 ft
framed with 3+3+7/16 Angles beams 4+3+7/16. Spaced 34 in. Plating outside 5/16. Boning plates
10+6/16. Deck 3 Y. Pine. Hood at after end of house framed with 4+3+6/16. Plated over with 5/16+6/16
plate

State if one, two, or three decked vessel, or if spar, or awning decked; and the lengths of poop, fore-castle, or raised quarter deck, and the length of double, or part double bottom.
How are the surfaces preserved from oxidation? Inside *Flankemented with Portland cement* Outside *Other parts with Paint*
I am of opinion this Vessel should be Classed *100 A1*
The amount of the Entry Fee ... £ 5 : " : " is received by me, *Special ... £ 55 : 12 : " 27 Aug 1879*
Certificate ... : : :
(Travelling Expenses, if any, £).
Committee's Minute *29th August, 1879.*
Character assigned *100 A1*
See Surveyors letter 18 Feb 1879
See tank 6 5 ft 6 in
Official tank 73 ft 6 in
Surveyor to Lloyd's Register of British and Foreign Shipping.
This vessel app. 2 eligible to be
classed as rec. intended for
Lloyd's Register
Foundation