

COMPOSITE SHIP.

No. 135 Survey held at Bolnes Date 1st of September 1867 to 15 October 1868on the auxiliary Steam Ship Utrecht Master HoogstratenTonnage under tonnage deck 1619 Built at Bolnes (Holland) When built 1867 Launched 1 August 1867Ditto of poop or spar deck 404Ditto of engine room 150By whom built Pot Brothers Owners Van Heylen & DeckerGross tonnage 2173Total Register tonnage 1873Port belonging to Rotterdam Destined Voyage JavaIf Surveyed while Building, Afloat, or in Dry Dock white building and afloat

Length aloft 247 9 Extreme Breadth 45 6 Depth from top of Upper Deck Beam to top of Floor 24 7 Power of Engines 80 No. of Decks 2, main & poop
 (Dimensions of Ship per Register, length 236 breadth 42 depth 23 9)

	Feet.	Inches.	Feet.	Inches.	Depth from top of Upper Deck Beam to top of Floor	Feet.	Inches.	Horse.	No. of Decks
Keel, siding and moulding	15	6	18	18	15	6	18	13	13
" plate, breadth and thickness	34	1	1/16	34	1	1/16	34	1	1/16
Stem, siding and moulding	15	1	30	17	1	17	17	8	5 1/4
Fore deadwood plate, breadth and thickness	28	1	1/16	17	1	18 1/2	17	1	18 1/2
Stern-post, siding and moulding	21	1	22	17	1	18 1/2	17	1	18 1/2
After deadwood plate, breadth and thickness	21	1	1/16	17	1	18 1/2	17	1	18 1/2
Distance of Frames from moulding edge to moulding edge, all fore and aft	21	1	1/16	17	1	18 1/2	17	1	18 1/2
Frames, Size of Angle Iron, single or double	4	6	1/16	4	5	1/16	4	5	1/16
" " Reversed Iron, if to every frame or every frame	3 1/2	4	1/16	3 1/2	4	1/16	3 1/2	4	1/16
Floors, depth and thickness of Floor Plate at Mid line	31	1	1/16	31	1	1/16	31	1	1/16
" Ditto ditto at Bilge Keelson	20	1	1/16	20	1	1/16	20	1	1/16
" Size of Reversed Angle Iron, and No. at top of Floor Plate	3 1/2	4	1/16	3 1/2	4	1/16	3 1/2	4	1/16
" If of Wood, siding & mould'g, at Mid. line	10	1	1/16	10	1	1/16	10	1	1/16
Beams, Deck (No. 65) double Angle Iron, Plate, Tee, or Bulb Iron	10	1	1/16	10	1	1/16	10	1	1/16
" " double or single Angle Iron, on upper edge	3 1/2	4	1/16	3	4	1/16	3	4	1/16
" " average space between 42 inches	10	1	1/16	10	1	1/16	10	1	1/16
" Hold, or Lower Deck (No. 65) double Angle, Tee, Plate, or Bulb Iron	10	1	1/16	10	1	1/16	10	1	1/16
" " double or single Angle Iron, on upper edge	3 1/2	4	1/16	3	4	1/16	3	4	1/16
" " average space between 42 inches	10	1	1/16	10	1	1/16	10	1	1/16
Keelson, single or double plate, box, or intercostal	15	1	1/16	15	1	1/16	15	1	1/16
" Size of Plates	21	1	1/16	21	1	1/16	21	1	1/16
" Size of Angle Irons	21	1	1/16	21	1	1/16	21	1	1/16
" If of Wood, siding and moulding	5 1/2	6	1/16	5	6	1/16	5	6	1/16
" Side, single or double, plate, box, or intercostal	15	1	1/16	15	1	1/16	15	1	1/16
" Bilge (No. 65) at each Bilge, single, or double, plate or box	15	1	1/16	15	1	1/16	15	1	1/16

The Floors consist of iron plating The Main piece of Rudder is White oak of Windlass is Emerald Walker
 The Keel is Cont. white oak The Main Keelson is iron and well free from all defects.

The Stem, and Stern Post of Continental white oak The Transoms, Knight Heads, Hawse Timbers, and Aprons of iron Deadwood, of Cont. white oak and are well free from all defects.

The Deck and Hold Beams of bulb iron The Breasthooks of iron The Knees of iron

Planking Outside.—From the Keel to the Height defined in Note to Table A the Plank is Riga pine

From the above named Height to the Light Water Mark Riga pine

From the Light Water Mark to the Wales Riga pine

The Wales and Black-strakes are Riga pine

The Spirketting and Planksheers iron plating

The Decks Riga pine State of good

The Shifts of the Planking are not less than 6 Feet with inches between N. B. If less than prescribed by the Rule, state whether general or partial, and if partial, in what part of the Ship. The Planking is wrought three between, and without step-buttling.

Planking Inside.—The Limber-strakes and Bilge-strakes are Riga pine

The Ceiling, Lower Hold, and between Decks Riga pine Shelf pieces and Clamps iron plating

Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted? double

Planksheer, how secured to the plating of the sides { Explain by sketch } See Midships section

Waterway " " planksheer and to the Beams { if necessary. }

Deck Beams, how secured to the side? by plates and stringer

Hold or Lower Deck ditto by knee plates and stringer

General Quality of Workmanship is good No. of breasthooks plating crutches plating

What description of Iron is used for the Frames, Beams, Keelsons, Stringer and Tie Plates, Outside Plating, &c.? best ship iron

Manufacturer's name or trade mark L. W. B.

We certify that the above is a correct description of the several particulars therein given.

Builder's Signature Gibbs. Pot

Surveyor's Signature

Louis Meyer

Size of Bolts in Fastenings, distinguishing whether Copper, Yellow Metal, Galvanised Iron, or Iron.

	Copper or Y.M. in Ship.	Iron in Ship.	Inches required per Rule.		Copper or Y.M. in Ship.	Iron in Ship.	Inches required per Rule.		Copper or Y.M. in Ship.	Iron in Ship.	Inches required per Rule.
Deadwood forward and aft ..	1 1/2	1 1/2	1 1/2	Transoms and throats of Hooks	—	—	—	Hold Beam Bolts in	Waterway	—	—
Scarphs of Keel, No. 11 bolts	1 1/2	1 1/2	1 1/2	Arms of Hooks	—	—	—		Knees	—	—
Keelson Bolts through Keel at each floor	1 1/2	1 1/2	1 1/2	Thro' Frames and Planking	1	1	1 1/2	Deck Beam Bolts in	Shelf or Clamp	—	—
Bolts through Iron Keel Plate and Wood Keel	1 1/2	1 1/2	1 1/2	Butt End Bolts ..	—	—	—		Waterway	—	—
				Pintles of the Rudder	3 1/2	3 1/2	3 1/2		Knees	—	—
								Nails or Bolts in Flat of Deck	Shelf or Clamp	—	—

Her Masts, Bowsprit, Yards, &c., are in good condition, and sufficient in size and length. If they are 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, show the number of Plates and Angle Irons, mode of rivetting, quality of Materials, and if stamped with Maker's name.

her lower Masts, topmasts, lower and top-laid yards are of iron, as seen per sketch on section bowsprit Rigs pine, Standing Rigging wire rope.

She has SAILS.	CABLES, &c.	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	No.	Weight.	Test as per Certificate.	Wt. req'd per Rule.
Fore Sails,	Chain	300	2 3/4	86.11.9	2 1/2	76.2	Bowers	3	41.14	36.7.2	40
Fore Top Sails,	St. Anne	90	1 3/4	11.9	1 1/2	—			41.1	36.6.14	36
Fore Topmast Stay Sails,	Hempen Stream Cable..	120	12	—	11	—	Stream	1	15.0.14	—	15
Main Sails,	Hawser	120	10	—	11	—			—	—	—
Main Top Sails,	Towlines	120	8	—	—	—	Kedges	2	7.3.0	—	7 1/2 x 3 1/4
	Warp	120	8	—	—	—			3.2.0	—	—
	All of <u>good</u> quality.										
Her Standing and Running Rigging	is sufficient in size and <u>good</u> in quality.										
She has <u>four</u> Long Boat and <u>one sciff</u>											
The present state of the Windlass is <u>good</u> Capstan <u>good</u> and Rudder <u>good</u> Pumps <u>good</u>											

Order for Special Survey December 1867
 No. _____ DATES of _____
 Date _____ Surveys held _____
 Order for Ordinary Survey while building
 No. 300
 Date from 1st 1868 to October 15. 1868.
 1st. Examination of the wood keel, stem, stern post, and deadwood before they are coated 2 Sept 1868
 2nd. Of the frame before it is painted, strapped, or plated October
 3rd. Of all the beams, stringers, plates, &c., when in place, rivetted-up ready to receive the planking 18 Feb 1868
 4th. When the vessel is planked outside, dubbed fair, and all the fastenings completed, but before she is caulked, coated, or cemented, so that the inside and outside of the planking, and the bolts and their nuts may be carefully examined 18 June
 5th. When the vessel is caulked and completed 14 September
 6th. When the vessel is launched and equipped 22 22

State if she has a Spar Deck Spar deck Poop none or Forecastle none

General Remarks, This double framed vessel has been daily surveyed and we do not hesitate in stating that every part of the ship has been tested and when found defective, repaired and renewed, all recommendations of Mr. Weymouth (who surveyed this vessel 4 or 5 times) have been faithfully executed. On great alterations of frames when arranged before the appearance of the "Suggersions for Composite Ships", compared as Mr. Weymouth recommended, we will be seen by the accompanying Midships section. The outside planking are fastened with iron bolts the heads of which are bedded in 1/2 inch cement. Now a sample of 1 1/2 to 1 3/4 inch on top, then sheathed with hair felt and 1/2 inch pine doubling wrought on top and this pine sheathing is the yellow metal. Now the pine sheathing is fastened with yellow metal nails.

For the support of the main beams, 1/2 by 10 inch plating with angle iron 5 x 5 x 1/2 has been introduced for support. Main beams, laying across the main beams, and fastened with angle iron 5 x 5 x 1/2. Now beams are supported by cot for the support of builders with double angle iron on top 3 x 3 x 1/2. Now beams are supported by cot for the support of builders with double angle iron on top 3 x 3 x 1/2. The ends of which repose and are fastened with angle iron 5 x 5 x 1/2 (as shown by sketch) the ends of which repose and are fastened with angle iron 5 x 5 x 1/2. The keelson, again has extra transoms to prevent parting and are placed in the sharp part of the vessel (angle iron 5 x 5 x 1/2) two bulkheads, one fore and one aft are placed 1/2 inch plating for the keelson and up to main deck.

This vessel is rather full below but considerably deeper aft than when launched she was 9 feet by the gun further particulars see Midships section, no house on poop deck, plan under poop deck shows only for the keelson this vessel fit to carry dry and portable cargo to and from all ports, she would

In what manner are the surfaces of Iron Work preserved from oxidation by Cementing

Present condition of Caulking of Bottom is good Deck, good and Waterways Cemented

Is Sheathed, Doubled, Felted, and Coppered with yellow metal on felt & paper When last done Nov

I am of opinion this Vessel should be Classed A 1 3 years, with distinction Mark +

The Amount of the Fee.....£ 5 : is received by me,

Special£ 108 13
 Certificate£ 40 - 5

Committee's Minute 20th October 1868

Character assigned 1st for 3 years

Spas decked