

3 Decks.

# IRON OR STEEL STEAMER.

Received at London Office.

Date of completion of report

State if Report is also sent on the Machinery of the Vessel

Port of

WEST HARTLEPOOL

No.

11227

Survey held at

West Hartlepool

Date, First Survey

26th Sept. 1899

Last Survey

16th June 1900

On the

Steel S.S. "BOLIVIANA"

Rig

Schooner

TONNAGE under

4324.16

THREE DECKED VESSEL.

CLASS #10071

Steel

FEET

Master

James Harrison

Year of appointment

(1) As Master in service of owner of present vessel: 18  
(2) As Master of this vessel: 1900

Built at

West Hartlepool

When built

1899-1900 Launched 17th March 1900

By whom built

Furness Withy & Co. Ltd.

Owners

British Maritime Trust Ltd.

Managers

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

Residence

4 Fenchurch Avenue

Port belonging to

West Hartlepool

Do. between Tonnage Dk. and 1st Dk.

Total under Upper Dk.

Do. of Poop

Do. of Bridge House

Do. of Forecastle

Do. of Houses on Dk.

Do. of excess of Hatchways

Do. above Crown of

Engine Room

Gross Tonnage

Less Crew Space

Less above Crown of

Engine Room

TONNAGE FOR FEES

Less Engine Room

Less Navigation Spaces

Register Tonnage

as cut on Beam

Half Breadth

Depth from upper part of Keel to top of Upper Deck Beams

(with the normal round up of beam)

Girth of Half Midship Frame (as per Rule)

deduct 7 feet

1st Number

Length on deck from after part of stem to fore part of

stern post

2nd Number

Proportions—Breadth to Length

Depth to Length—Upper Deck to top of Keel

Main Deck ditto

Destined Voyage

Surveyed while Building, Afloat, or in Dry Dock

LENGTH on Deck as per Rule	Feet.	Inches.	BREADTH Moulded	Feet.	Inches.	DEPTH, ACTUAL	Top of Floors to top of Upper Dk. Beams	Feet.	Inches.	No. of Decks with flat laid
368	2		50	10		28	1	28	3	2

Dimensions of Ship per Register, Length 370.5 breadth 51.2 depth 28.1. Moulded depth, ft. 30. ins. 10 1/2 To Upper Dk. Round of Upper Dk. Beam, Actual 12 1/2 ins.

FRAMING.		Inches in Ship	Inches in Ship	16ths on 20ths in Ship	Inches per Rule Or as Appro	16ths on 20ths in Ship	Inches per Rule Or as Appro	FORGINGS or CASTINGS.		Inches in Ship.	Inches per Rule. Or as Approved.
FRAME, Angles, Bars for 1/2 length amidships		7	3 1/2	13	7	3 1/2	13	KEEL, Bar or Side Plates, depth and thickness		11 x 3/8	11 x 3/8
Do. for 1/2 at each end		12	12	12	12	12	12	STEM, moulding and thickness		11 x 7/16	11 x 7/16
Do. in way of Double Bottoms at Solid Floors		3	3	10	3	3	10	STERN-POST for Rudder do. do.		11 x 7/16	11 x 7/16
Distance of Frames from moulding edge to moulding edge, all fore and aft		25	25	25	25	25	25	MAIN PIECE of Rudder, diameter at head		9 1/2	9 1/2
REVERSED FRAME, Angles		3 1/2	3 1/2	10	3 1/2	3 1/2	10	do. at heel		4 3/4	4 3/4
DEEP FRAMING, depth of girder		3	3	10	3	3	10	RUDDER, how constructed		Cash steel frame, plated	
FLOORS, depth and thickness of Floor Plate at mid line for 1/2 length amidships		3	3	10	3	3	10	Can the Rudder be unshipped afloat?		Yes	
in way of Engines and Boilers		4	4	9	4	4	9	KEELSONS & STRINGERS.			
thickness at the ends of vessel		4	4	9	4	4	9	CENTRE LINE KEELSON, Vertical Plate above floor, Through Plate, or Intercoastal Plate			
depth at 1/2 the half breadth, as per Rule		6 1/2	6 1/2	9	6 1/2	6 1/2	9	Rider Plate			
height extended at the Bilges		3 1/2	3 1/2	8	3 1/2	3 1/2	8	Bull Plate to Intercoastal Keelson			
FLOORS & DECK PLATES in Cell Dble Bottoms		4	4	9	4	4	9	Horizontal Plates on Floors			
Distance apart		25	25	25	25	25	25	Angles			
CENTRE GIRDER, in Double bottom, depth and thickness		4	4	9	4	4	9	SIDE KEELSON, Angles			
Angles, Top		6 1/2	6 1/2	9	6 1/2	6 1/2	9	Bull or Plate above floor, for length			
Bottom		4	4	9	4	4	9	Intercoastal Plate, for length			
SIDE GIRDERS, number on each side & thickness		3 1/2	3 1/2	8	3 1/2	3 1/2	8	Attached to outside Plating with Angle			
Angles		3 1/2	3 1/2	8	3 1/2	3 1/2	8	BILGE KEELSON, Angles			
MARGIN PLATE, depth (exclusive of flange) and thickness		4	4	9	4	4	9	Bull or Plate above floor, for length			
Angles to Outside Plating		6 1/2	6 1/2	9	6 1/2	6 1/2	9	Intercoastal Plate, for length			
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake		8 1/2	8 1/2	3	8 1/2	8 1/2	3	Attached to outside Plating with Angle			
in Engine and Boiler space		8 1/2	8 1/2	3	8 1/2	8 1/2	3	BILGE STRINGER Angles			
Remainder in Holds		8 1/2	8 1/2	3	8 1/2	8 1/2	3	Bull or Plate for length			
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate or Tee Bulb		7	3	8	7	3	8	Intercoastal Plate for whole length			
Angles on upper edge		7	3	8	7	3	8	Attached to outside Plating with Angle			
Average space		7	3	8	7	3	8	SIDE STRINGER Angles			
BEAMS, Middle Deck, Single Angle, Bulb Angle, Plate or Tee Bulb		7	3	8	7	3	8	Bull or Intercoastal Plate, for whole lng.			
Angles on upper edge		7	3	8	7	3	8	Attached to outside plating with Angle			
Average space		7	3	8	7	3	8	Upper Deck Stringer Plates, br'dth & thickness			
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb		7	3	8	7	3	8	Angles on ditto			
Angles on upper edge		7	3	8	7	3	8	Tie Plates fore and aft, outside Hatchways			
Average space		7	3	8	7	3	8	Deck * Iron or Steel, for whole lng.			
BEAMS, Hold, or Orlop, Plate or Tee Bulb		7	3	8	7	3	8	Wood Deck, Material & thickness			
Angles on upper edge		7	3	8	7	3	8	Middle Deck Stringer Plate, br'dth & thickness			
Average space		7	3	8	7	3	8	Angles on ditto, No. 2			
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb		7	3	8	7	3	8	Tie Plates outside Hatchways			
Angles on upper edge		7	3	8	7	3	8	Diagonal Tie Plates on Bms, No. of prs.			
Average space		7	3	8	7	3	8	Deck * Iron or Steel, for whole lng.			
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb		7	3	8	7	3	8	Wood Deck, Material & thickness			
Angles on upper edge		7	3	8	7	3	8	Lower Deck Stringer Plate, br'dth & thickness			
Average space		7	3	8	7	3	8	Angles on ditto, No.			
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb		7	3	8	7	3	8	Tie Plates outside Hatchways			
Angles on upper edge		7	3	8	7	3	8	Deck * Material and thickness			
Average space		7	3	8	7	3	8	Hold, or Orlop Stringer Plate, br'dth & thickness			
PILLARS, In 'tween Deck, size and spacing		7	3	8	7	3	8	Angles on ditto, No.			
Hold		7	3	8	7	3	8	Tie Plates outside Hatchways			
Quarter 'tween Dks.,		7	3	8	7	3	8	Deck, Material and thickness			
In Hold		7	3	8	7	3	8	Poop Deck Stringer Plate, breadth & thickness			
B-FRAMES, In Fore Body, No. and spacing		7	3	8	7	3	8	Angle on ditto			
br'dth. & thickness		7	3	8	7	3	8	Tie Plates			
No. of Side Stringers		7	3	8	7	3	8	Deck, Material and thickness			
WEB-FRAMES, In E. & B. Space, No. & spacing		7	3	8	7	3	8	Bridge Deck Stringer Plate, br'dth & thickness			
br'dth. & thickness		7	3	8	7	3	8	Angle on ditto			
WEB-FRAMES, In After Body, No. and spacing		7	3	8	7	3	8	Tie Plates			
br'dth. & thickness		7	3	8	7	3	8	Deck, Material and thickness			
No. of Side Stringers		7	3	8	7	3	8	Forecastle Deck Stringer Plate, br'dth & thickness			
Size of Angles or Tee Bars to Web-Frames		7	3	8	7	3	8	Angle on ditto			
BRACKET PLATES to Stringers between Web Frames, depth and thickness		7	3	8	7	3	8	Tie Plates			
		7	3	8	7	3	8	Deck, Material and thickness			

HPL 389-2096

PLATING.										RIVETING.									
STRAKES	AS IN SHIP.				PER RULE OR AS APPROVED.				Single or Double.	EDGES.				BUTTS.					
	AMIDSHIP.	FORWARD.	THICKNESS.	THICKNESS.	AMIDSHIP.	FORWARD.	THICKNESS.	THICKNESS.		Breadth of Lap.	RIVETS.	Don't or for what length.	Don't or for what length.	Don't or for what length.	Don't or for what length.				
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Thickness.	Thickness.		Don't or for what length.	Don't or for what length.	Don't or for what length.	Don't or for what length.	Don't or for what length.					
FLAT PLATE KEEL.....	48	20	14	14	48	20	14	14	Double	6	1	48	Double	1	3 1/2				
(If Bar Keel, state Riveting)																			
Double of A Strake	54	15	13	13	54	15	13	13											
State actual thickness in way of Double Bottom.																			
B	11	9	9	9	11	9	9	9											
C	11	9	9	9	11	9	9	9											
D	12	10	10	10	12	10	10	10											
E	13	10	10	10	13	10	10	10											
F	14	11	11	11	14	11	11	11											
G	13	10	10	10	13	10	10	10											
H	13	10	10	10	13	10	10	10											
J	12	9	9	9	12	9	9	9											
K	13	10	10	10	13	10	10	10											
L	12	9	9	9	12	9	9	9											
M	13	10	10	10	13	10	10	10											
N	12	9	9	9	12	9	9	9											
O	12	9	9	9	12	9	9	9											
P	14	14	14	14	14	14	14	14											
Shells for Deck	9	7	7	7	9	7	7	7											
Shells for Deck	10	8	8	8	10	8	8	8											
DOUBLE of Flat Plate Keel																			
Length of Bilges																			
Thickness of Sheerstrakes																			
Thickness of Strake below																			
POOP SIDES																			
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. *Consell & Co., S. Durham*

Has the Steel been tested as required by the Rules? *Yes*

FRAMES extend in one length from *caulk sides to gunwale*

REVERSED FRAMES on floors and frames extend from *are double in S.B. Space, floors planked at other parts. Bulk angle framing above caulk sides.*

MASTS, SPARS, &c.

LOWER MASTS.....	Material.	Total Length.	DIAMETER AND THICKNESS.		No. of Plates in round.	ANGLES.	RIVETING.	
			At Partners.	Heel.			Number.	Size.
Fore	Steel	51' 6"	21 x 1/2	19 x 3/4	12	Single	Double	
Main	"	52' 3"	"	"	"	"	"	
Mizzen	"	"	"	"	"	"	"	

Topmasts, Yards and Remains of Spars *of Pitch Pine*

Rigging, Material and Size, Shrouds *Q. S. wire 4"*

Sails, *One* Suit of *fine cable* Sails, and the following spare sails

EQUIPMENT No. *45540* LETTER *Y* ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.		TEST, PER CERTIFICATE.		WEIGHT REQUIRED BY TABLE 22.		Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	Cwts.	qrs.	Cwts.	qrs.			
37678	1st Boyer	59	1	0	47	18	0	Boyer Patent	Byers	12.1.00
37712	2nd "	58	3	14	47	13	0	"	"	19.12.00
37487	3rd "	50	0	14	42	9	0	"	"	20.11.99
	4th "							"	"	
	Collected weight	168	1	0	166	3	0			
37861	Stream	14	0	21	15	16	3	Common		10.1.00
42797	Kedge	7	0	8	9	7	0	"		19.9.99

See test certificate for stockless anchors supplied.

CHAIN CABLES.

Number of Certificate.	Fathoms.	Size.	WEIGHT OF CHAIN CABLE.		TEST, PER CERTIFICATE.		Description.	Makers of Cable.	When and where tested and Superintendent.
			Per Table 22.	Per Table 22.	Per Table 22.	Per Table 22.			
25945	185	2 1/2	328	0	645	5	Shackleton		24.1.00
14871	135	"	327	5	19	2	"		12.1.00
	90	4 1/2	47		90	4	Cranes		5.5.00

HAWSERS AND WARPS

Number of Certificate.	Fathoms.	Size.	WEIGHT OF CHAIN CABLE.		TEST, PER CERTIFICATE.		Description.	Makers of Cable.	When and where tested and Superintendent.
			Per Table 22.	Per Table 22.	Per Table 22.	Per Table 22.			
25945	185	2 1/2	328	0	645	5	Shackleton		24.1.00
14871	135	"	327	5	19	2	"		12.1.00
	90	4 1/2	47		90	4	Cranes		5.5.00

Boats *Two life boats and two others connected to main line of anchor pipe*

Pumps, Number *One fly wheel hand pump* Diameter of Barrel *6"* State whether they are in efficient working order *Yes*

Windlass is *of iron* Clarke Chapman & Co. Capstan *Three steam winches furnished*

Engine Room Skylights. How constructed? *Teak on iron casings*

What arrangements for deadlights in bad weather? *Thick glass bulls eyes in hinged teak covers*

Coal Bunker Openings. How constructed? *Iron casings* How are lids secured? *Hatches & battens* Height above deck? *12"*

Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. *70 cutters* *Two gunwale rails & 14 inchings above shell deck*

Ceiling in Holds, thickness and material. *2 1/2" White Pine* Ceiling between Decks, thickness and material. *2 1/2" White Pine battens*

Cargo Hatchways. How formed? *Plate casings 24" above shell deck*

State size No. 1 Hatch (Forward) *18' 9" x 16' 0"* No. 2 Hatch *20' 10" x 16' 0"* No. 3 Hatch *12' 6" x 16' 0"* No. 4 Hatch *20' 10" x 16' 0"*

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch. *One deck web plate & 3 iron fore battens in each.*

No. of Breasthooks *6* *deck floor* No. of Crutches *2* *deck floor*

Bulwarks, height above deck and description *Main Rail, material and size*

The above is a correct description.

Builder's Signature *Perk Wells* Surveyor's Signature *Ed Burney* E. B. Humphress

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

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

25/1/99 ul. 2/2/99 ul. 28/4/99 E.

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? *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 *Good*

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

General Remarks (State quality of workmanship, &c.) *The workmanship is good and the vessel has been constructed in accordance with the approved plans. 6 in. number which together with the report on forgings and castings are attached hereto. The tunnel has been tested by a strong force of water from a hose, the manual pump has been tested, and the collision bulkhead tested by filling the fore peak with water to the height of the load line and all found satisfactory.*

Drawings. *Midship Section, Profile, Plan of girders in tanks, Cast-Steel Stern.*

" *Rudder frame.*

" *Stern frame.*

The Surveyor should state the Number of Report and Name of any Sister Vessel. *This is a sister vessel to S.S. "Terona" O. Hartlepool Report 42 11073.*

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop — ft., R.Q.D. or Break — ft., Bridge Dk. — ft., F'castle — ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated *Complete Shell deck*

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 dks (steel) + 2nd frame Shell deck (iron).*

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 or with girders on floors

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
Double bottom, aft,	118' 9"	331	Fore peak tank,		
Double bottom, under Engines and Boilers,	45' 10"	158	After peak tank,		53
Double bottom, if under Engines only,			Midship deep tank,		
Double bottom, if under Boilers only,			Other tanks, if fitted,		
Double bottom, forward,	139' 7"	435	(If necessary, furnish further information by sketch.)		See pump room plan

\* 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. *1759*

Date *26th Jan. 1899*

No. *247* in builder's yard.

DAVES of Surveys held while building

1899. Sept. 20. Oct. 6. 12. 16. 19. 23. 27. 30. Nov. 1. 3. 6. 8. 17. 20. 21. 23. 28. Dec. 4. 7. 8. 22. 1900. Jan. 3. 5. 8. 10. 15. 16. 25. 29. 31. Feb. 6. 7. 15. 21. 26. Mar. 5. 6. 7. 10. 12. 13. 14. 15. 16. 19. 27. 30. Apr. 4. May 18. 24. 29. 31. June 8. 15. 16. 19. 20. 21. 25. 26.

Total No. of Visits *61*

The amount of Entry Fee ..... *24. 6. 1900*

Special Survey Fee ..... *135. 7. 6*

Travelling Expenses, if any, £ ..... *29. 6. 1900*

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

I am of opinion this Vessel should be Classed *100A 3 dk rule*

With, or without Freeboard, as condition of Class *✓*

Committee's Minute *FRI. 6 JUL 1900*

Character assigned *100A Steel*

*2 rel + 2 mc 6.00*

*Amstrong (som)*

*Shells dk*

*E. B. Humphress*

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