

3 Decks.

IRON OR STEEL STEAMER.

Received at London Office

MON. AUG. 21. 1911

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

Port of **NEWCASTLE ON TYNE.**

No. **60884.**

Date of completion of report

Survey held at

Date, First Survey

Feb. 19. 1904

Last Survey

Aug. 8. 1911

On the

S.S. Benguela

Rig

Schooner

TONNAGE under

5312.50

THREE DECKED VESSEL.

Master

E. Cole.

Year of appointment

(1) As Master in service of owner of present vessel: 19
(2) As Master of this vessel: 19

Do. between Tonnage Dk. and 3rd and 4th 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 out on Beam

CLASS **100 A. 1.**

FEET.

Half Breadth (moulded)

26.39

Depth from upper part of Keel to top of Upper Deck Beams (with the normal round up of beam)

33.10

Girth of Half Midship Frame (as per Rule)

55.62

deduct 7 feet

115.11

7.00

108.11

1st Number

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

423

2nd Number

45730

Proportions—Breadth to Length

8.00

Depth to Length—Upper Deck to top of Keel

12.77

16.82

Main Deck ditto

Destined Voyage **West coast of Africa**

If Surveyed while Building, Afloat, & in Dry Dock

Yes.

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
423	0		52	9 1/2		29	3 1/2		2
						21	2 1/4		No. of Tiers of Beams 28 Deck frames

Dimensions of Ship per Register, Length **125.5** breadth **53.05** depth **29.25** Moulded depth, ft. **32** ins. **0** To Upper Dk. Round of Upper Dk. Beam, Actual **13** ins.

FRAMING.						FORGINGS OR CASTINGS.					
	Inches in Ship.	Inches in Ship.	16ths or 20ths in Ship.	Inches per Rule Or as Appro.	16ths or 20ths per Rule vnd.		Inches in Ship.	Inches in Ship.	16ths or 20ths in Ship.	Inches per Rule Or as Approved.	16ths or 20ths per Rule vnd.
FRAME, Angles, on $\frac{1}{2}$ length amidships	11	3 1/2	21-23	11	3 1/2	KEEL, Bar or Side Plates, depth and thickness	12 x 3 1/2		12 x 3 1/2		
Do. for $\frac{1}{2}$ at each end	11	3 1/2	10	11	3 1/2	STEM, moulding and thickness	12 x 7 1/2		12 x 7 1/2		
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	10	3 1/2	3 1/2	STERN-POST for Rudder do. do.	12 x 7 1/2		12 x 7 1/2		
" " at intermdt. Bkts.						" for Propeller	12 x 7 1/2		12 x 7 1/2		
Spacing of Frames from centre to centre	25	1		25		MAIN PIECE of Rudder, diameter at head	10 1/2		10 1/2		
REVERSED FRAME, Angles	11	1		11		" do. at heel	8		8		
DEEP FRAMING, depth of girder						RUDDER, how constructed	Single plate round stock, arms shrouded on				
FLOORS, depth and thickness of Floor Plate at mid-line for $\frac{1}{2}$ length amidships						Can the Rudder be unshipped afloat?	Yes.				
" in way of Engines and Boilers						KEELSONS & STRINGERS.					
" thickness at the ends of vessel						CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercostal Plate					
" depth at $\frac{1}{2}$ the half breadth, as per Rule						" Rider Plate					
" height extended at the Bilges						" Bulb Plate to Intercostal Keelson					
FLOORS & BRACKETS in Cell Dble Bottoms state if flanged (top & bottom)	25	1		25		" Horizontal Plates on Floors					
" Spacing	46	11	46	11		" Angles					
CENTRE GIRDER, in Double bottom, depth and thickness	4	4	10	4	10	SIDE KEELSON, Angles					
" Angles, Top	5	5	12	5	12	" Bulb or Plate above floors, for length					
" Bottom	2	2	9	2	9	" Intercostal Plate, for length					
SIDE GIRDERS, number on each side & thickness state if flanged (top and bottom)	3 1/2	3 1/2	9	3 1/2	9	" Attached to outside Plating with Angle					
" Angles	38	10	38	10		BILGE KEELSON, Angles					
MARGIN PLATE, depth (exclusive of flange) and thickness	4	4	10	4	10	" Bulb or Plate above floors, for length					
" Angles to Outside Plating	5	5	9	5	9	" Intercostal Plate for length					
" Floors	8 1/2	1	8 1/2	1	8 1/2	" Attached to outside Plating with Angle					
" Height of Floors at the Bilges	46	11	46	11		BILGE STRINGER Angles					
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	10-20	12	10	12		" Bulb Plate for length					
" in Engine and Boiler space	9-8-7	1	9-8-7	1		" Intercostal Plate for length					
" Remainder in Holds	10-20	12	10	12		" Attached to outside Plating with Angle					
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	9 1/2	3 1/2	11	9 1/2	3 1/2	2 SIDE STRINGER Angles	6 1/2	4 1/2	14	6 1/2	4 1/2
" Angles on upper edge	25	1	25			" Bulb or Intercostal Plate, for full length	15 1/2	10	15 1/2	10	
" Spacing	9	3 1/2	11	9	3 1/2	" Attached to outside plating with Angle	3 1/2	3 1/2	10	3 1/2	10
BEAMS, Middle Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	25	1	25			Upper Deck Stringer Plates, br'dth & thickness	66	68	63	68	
" Angles on upper edge	9	3 1/2	11	9	3 1/2	" Angle on ditto	5 x 5	70	5 x 5	70	
" Spacing	25	1	25			" Tie Plates, outside Hatchways					
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	7	3	9	7	3	" Deck * Iron or Steel, for full length	46		46		
" Angles on upper edge	25	1	25			" Wood Deck, Material & thickness					
" Spacing	7	3	9	7	3	Middle Deck Stringer Plate, br'dth & thickness	19	18	118	48	
BEAMS, Hold, or Orlop, Plate or Tee Bulb	6	3	9	6	3	" Angles on ditto, No. 2	3 1/2 x 3 1/2	48	3 1/2 x 3 1/2	48	
" Angles on upper edge	25	1	25			" Tie Plates outside Hatchways					
" Spacing	7	3	9	7	3	" Diagonal Tie Plates, No. of pairs					
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	6	3	9	6	3	" Deck * Iron or Steel, for full length	36		36		
" Angles on upper edge	25	1	25			" Wood Deck, Material & thickness					
" Spacing	7	3	9	7	3	Lower Deck Stringer Plate, br'dth & thickness					
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	7	3	9	7	3	" Angles on ditto, No.					
" Angles on upper edge	25	1	25			" Tie Plates, outside Hatchways					
" Spacing	7	3	9	7	3	" Deck, Material and thickness					
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	7	3	9	7	3	" Deck * Material and thickness					
" Angles on upper edge	25	1	25			Hold, or Orlop Stringer Plate, br'dth & thckn's					
" Spacing	7	3	9	7	3	" Angles on ditto, No.					
PILLARS, In 'tween Deck, size and spacing	Wide spaced pillars and girders as app'd.					" Tie Plates outside Hatchways					
" Hold						" Deck, Material and thickness					
" Quarter 'tween Dks.						Poop Deck Stringer Plate, breadth & thickness	36	36	36	36	
" in Hold						" Angle on ditto	3 1/2 x 3 1/2	36	3 1/2 x 3 1/2	36	
WEB-FRAMES, In Fore Body, No. and spacing br'dth. & thickness	1	35	9	1	35	" Tie Plates					
" No. of Side Stringers						" Deck, Material and thickness	Steel	30		30	
WEB-FRAMES, In E. & B. Space, No. & spacing br'dth. & thickness	1	35	9	1	35	Bridge Deck Stringer Plate, br'dth & thickness	54	56	54	56	
" No. of Side Stringers						" Angle on ditto	5 x 5	62	5 x 5	62	
" Size of Angles or Tee Bars to Web-Frames						" Tie Plates					
BRACKET PLATES to Stringers between Web Frames, depth and thickness	6 1/2	4 1/2	14	6 1/2	4 1/2	" Deck, Material and thickness	Steel	40		40	
						Forecastle Deck Stringer Plate, br'dth & th'kns	15	36	36	36	
						" Angle on ditto	3 1/2 x 1 1/2	36	3 1/2 x 1 1/2	36	
						" Tie Plates					
						" Deck, Material and thickness	Steel	30		30	

* If Iron or Steel Deck, state if whole or part, and if Wood Deck is laid thereon.

BULKHEADS.		STIFFENERS.		Single or Double Frames.		Height up.
Number.	Per Rule.	Thickness.	Horizontal.	Vertical.	Height up.	
			Size.	Size.	Size.	
			Inches.	Inches.	Inches.	
W. T. BULKHEADS	7	7	10 x 11 x 2	24	Sgl.	4.00
PARTITION						
LONGITUDINAL						
Are the outside Plates doubled two spaces of Frames in length?						
App'd liners						
Are the Sluice Valves and Watertight Doors in efficient working order?						
Yes.						

1110-0884

PLATING.										RIVETING.												
STRAKES.	AS IN SHIP.					PER RULE OR AS APPROVED.					EDGES.					BUTTS.						
	AMIDSHIP.		FORWARD.		AFT.	AMIDSHIP.		Single or Double.		Breadth of Lap.		RIVETS.			Double or Treble and for what Length.	RIVETS.		STRAPS.		IF LAPPED.		
	Breadth.	Thickness.	Thickness.	Thickness.		Breadth.	Thickness.	Inches.	Inches.	Inches.	Diam.	Spacing cr. to cr.	Inches.	Inches.		Spacing cr. to cr.	Inches.	Inches.	Breadth.	Thickness.	Breadth.	For what Length.
FLAT PLATE KEEL (If Bar Keel, state Riveting.) GARBOARD OF A Strake... State actual thickness in way of Double Bottom.	36	22	16	16	36	22	16	16	36	22	16	16	36	22	16	16	36	22	16	16	36	22
B	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
C	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
D	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
E	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
F	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
G	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
H	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
J	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
K	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
L	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
M	48	60	46	46	48	60	46	46	48	60	46	46	48	60	46	46	48	60	46	46	48	60
N	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
O	48	60	46	46	48	60	46	46	48	60	46	46	48	60	46	46	48	60	46	46	48	60
P	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
Q	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
R	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
S	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
DOUBLING OF Flat Plate Keel	Increased in lieu.																					
Length and thickness of Bilges	at ends of bilge, increased clear of bilge																					
of Sheerstrakes	Increased in lieu.																					
of Strake below	Increased in lieu.																					
POOP SIDES	38																					
BRIDGE SIDES	42																					
FORECASTLE SIDES	42																					

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.?
Palmer, S. & Co. Donnell Iron Co. Cargo
Foot & Co. Rolsons Vaughan & Co. Dorman
Long & Co. South Durham & Co. Spencer & Son.
 Has the Steel been tested as required by the Rules? *Yes*

FRAMES extend in one length from *margin* to *Upper Deck*. State if ordinary or jogged *Ordinary*
 REVERSED FRAMES on floors and frames extend from *centre girder margin plate in E.S.* State if ordinary or jogged *Jogged*
floor flanged in holds.

MASTS, SPARS, &c.										RIVETING.									
LOWER MASTS.	Fore	Main	Mizen	DIAMETER AND THICKNESS.			No. of Plates in round.			ANGLES.			RIVETING.			RIVETING.			Butts.
				Material.	Total Length.	At Partners.	Heel.	Hounds.	Head.	Number.	Size.	Seams.	Butts.	Butts.	Butts.	Butts.	Butts.	Butts.	
1st	Fore	Main	Mizen	Steel	111	30 x 50	29 3/4 x 5	24 x 40	24 x 40	2			2bl.	2bl.	2bl.	2bl.	2bl.	2bl.	2bl.
2nd	Fore	Main	Mizen	Steel	109	20 1/2 x 120	20 1/2 x 120	17 x 120	17 x 120	2			2bl.	2bl.	2bl.	2bl.	2bl.	2bl.	2bl.

Boomsprit. *Topmasts, Yards and Remainder of Spars.*
 Riggers, Material and Size. *Shrouds 5/8" S. Wire - 4" 9" S. Wire*
 Stays *2 1/4" 8" 3/4" - 4" 9" S. Wire*
 Sails. *One* Suit of *fine Duff* Sails, and the following spare sails

EQUIPMENT No. 2205 LETTER <i>at</i> ANCHORS.										ANCHORS.									
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.		WEIGHT OF STOCK.		TEST, PER CERTIFICATE.		WEIGHT REQUIRED BY TABLE 22.		Description of Anchor.		Makers.		Where and when tested and Superintendent.		Makers.		Where and when tested and Superintendent.	
		Cwts. qrs. lbs.	Cwts. qrs. lbs.	Cwts. qrs. lbs.	Cwts. qrs. lbs.	Cwts. qrs. lbs.	Cwts. qrs. lbs.	Cwts. qrs. lbs.	Cwts. qrs. lbs.										
12484	1st Bower	68	3	0	68	3	0	68	3	0	68	3	0	68	3	0	68	3	0
12491	2nd "	67	0	14	67	0	14	67	0	14	67	0	14	67	0	14	67	0	14
12490	3rd "	58	3	0	58	3	0	58	3	0	58	3	0	58	3	0	58	3	0
12490	4th "	58	3	0	58	3	0	58	3	0	58	3	0	58	3	0	58	3	0
35824	Stream	19	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19	0	0
35823	Kedge	8	0	4	8	0	4	8	0	4	8	0	4	8	0	4	8	0	4

CHAIN CABLES.										HAWERS AND WARPS.									
Number of Certificate.	Length and size supplied.	Status - Break- ing.	Tons.	WEIGHT OF CHAIN CABLE.		Length and size supplied.	Status - Break- ing.	Tons.	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and size supplied.	Status - Break- ing.	Tons.	Length and size supplied.	Status - Break- ing.	Tons.	Description.
				Cwts. qrs. lbs.	Cwts. qrs. lbs.														
34012	270	2 1/2	46 1/2	13 1/2	720	2 1/2	46 1/2	13 1/2	270	2 1/2	46 1/2	13 1/2	270	2 1/2	46 1/2	13 1/2	270	2 1/2	46 1/2
34012	270	2 1/2	46 1/2	13 1/2	720	2 1/2	46 1/2	13 1/2	270	2 1/2	46 1/2	13 1/2	270	2 1/2	46 1/2	13 1/2	270	2 1/2	46 1/2

Boats *2 Life cutter, 11 ft. 8 in. 25 ft. 6 in.*
 Pumps, Number *11 ft. 8 in. 25 ft. 6 in.* Diameter of Barrel *25 ft. 6 in.* State whether they are in efficient working order *Yes*
 Windlass is *Iron Patent* Capstan
 Engine Room Skylights. How constructed? *Steel plates*
 What arrangements for deadlights in bad weather? *Steel covers & glass lights*
 Coal Bunker Openings. How constructed? *Bulkheads* How are lids secured? *Ballasted* Height above deck? *8"*
 Number of Scuppers, and numbers and dimensions of Fording Ports, &c. *4 Scuppers, 4 Fording ports 29 x 16.*
 Ceiling in Holds, thickness and material *2 1/2" x 16" x 16" x 16" x 16" x 16"* Cargo Battens, thickness and material *6 x 2 x 16"*
 Cargo Hatchways. How formed? *Steel casings* Hatches, If strong and efficient? *Yes*
 State size No. 1 Hatch (Forward) *20 ft. 0 in. x 16 ft. 0 in.* No. 2 Hatch *29 ft. 2 in. x 16 ft. 0 in.* No. 3 Hatch *28 ft. 0 in. x 16 ft. 0 in.* No. 4 Hatch *28 ft. 11 in. x 16 ft. 0 in.*
 Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *194 H. webs 285 6 webs 386 8 webs*
 No. of Breasthooks *8* No. of Crutches *39 Sep. Floor*
 Bulwarks, height above deck and description *Steel plates 5 ft. high* Main Rail, material and size *Steel bulkheads 6 ft. 3 in. x 4*
 The above is a correct description.
 Builder's Signature (here only) *SWAN, HUNTER, & WIGHAM RICHARDSON, LTD.* Surveyor's Signature *E. J. Milton*
 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 the case)
M. 31.12.06 7.1.07 19.2.07 4.3.07 22.9.08 22.11.09
 Workmanship. Are the butts of plating planed or otherwise fitted? *Lapped & 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 the 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.) *This vessel has been built in accordance with the Rules, the approved Plans and the Secretary's letter quoted above.*
The workmanship and materials are good throughout.
On 18th July 1911, this vessel was placed in the Dry Dock, her bottom cleaned, examined, found in good condition and recoated. Rudder examined and found in order.
The approved Builders' Section & Profile plans as built, rudder & stern frame, quadrant & tiller, pumping arrangements, hatch webs, and proposed amidship section and profile plan as proposed but not adopted, are forwarded herewith.
A small portion of No. 3 tween deck is insulated for the carriage of cargo.

The Surveyor should state the Number of Report and Name of any Sister Vessel.
 PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *37.5* ft., R.Q.D. or Break *—* ft., Bridge Dk *18.25* ft., Forecastle *24.0* ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated *Not joined*
 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 Sts (Steel) and deep framing*
 Official No. *131366*; Signal Letters *—* State if Machinery is fitted aft *No*
 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 <i>Cell Sds.</i>									
Where Fitted.		*Length.	Water Capacity.	Where Fitted.		*Length.	Water Capacity.		
		Feet.	Tons.			Feet.	Tons.		
Double bottom, aft,		<i>1150.0</i>	<i>393</i>	Fore peak tank,		<i>21.0</i>	<i>83</i>		
Double bottom, under Engines and Boilers,		<i>45.9</i>	<i>190</i>	After peak tank,		<i>10.5</i>	<i>25</i>		
Double bottom, if under Engines only,				Deep tank, aft,					
Double bottom, if under Boilers only,				Deep tank, forward,					
Double bottom, forward,		<i>181.5</i>	<i>562</i>	Other tanks, if fitted,					
Total capacity of double bottom			<i>1145</i>	(If necessary, furnish further information by sketch.)					
State whether the above have been tested as required by the Rules <i>Yes</i>									
* The wells are not to be included in the lengths of the tanks									

Order for Special Survey No. *1907*
 Date *25.10.1907*
 No. *789* in builder's yard.
 Dates of Surveys held while building *25.10.1907, 26.10.1907, 27.10.1907, 28.10.1907, 29.10.1907, 30.10.1907, 31.10.1907, 1*