16 JUN 1930 Bel. 10.392.

Rpt. 5c.

REPORT ON WATER TUBE BOILERS.

No. 49958

Received at London Office 27 DEC 1929

Date of writing Report ..... 191 .... When handed in at Local Office 30 - 12 - 1929 Port of Glasgow.

No. in Reg. Bk. ..... Survey held at Renfrew Date, First Survey 30th May 29 Last Survey 12th Dec 1929

on the BOILERS No. 6/1251 S/S "La Marea" NOW "DARIEN" Number of Visits 31 Tons { Gross ..... Net .....

Master ..... Built at ✓ By whom built ✓ When built ✓

Engines made at ✓ By whom made ✓ When made ✓

Boilers made at Renfrew By whom made Messrs Babcock & Wilcox Ltd When made 1929

Registered Horse Power ..... Owners Balboa Shpg. Co. Inc. (United Fruit Co. mgrs.) Port belonging to Panama.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel J. Brown & D. Colville & Sons (Letter for Record S ✓) Date of Approval of plan 22/5/29, 26/6/29, 21/8/29, 1/11/29 **Number and Description or Type of Boilers** Two Babcock & Wilcox Type Working Pressure 400 lb Tested by Hydraulic Pressure to ✓ Date of Test ✓ **Total Heating Surface of Boilers** 2352 sq ft Superheaters 8660 sq ft No. of Certificate ✓ Can each boiler be worked separately yes ✓ Is forced draught fitted Yes **Area of fire grate (coal) in each Boiler** ✓ Total grate area of boilers in vessel including Main and Auxiliary ✓ No. and type of burners (oil) in each boiler 4 Todd's Oil Burners No. and description of safety valves on each boiler 1-2½" Marine Improved High Lift Backburn Area of each valve 7.95 sq inches Pressure to which they are adjusted ✓ Are they fitted with easing gear ✓ In case of donkey boilers state whether steam from main boilers can enter the donkey boiler ✓ Smallest distance between boilers or uptakes and bunkers or woodwork ✓ Height of Boiler 20'-8" Width and Length 18'-0" × 16'-4½" **Steam Drums:**—Number in each boiler One ✓ Inside diameter 3'-6" ✓ Material of plates Steel ✓ Thickness 19/16" ✓ Range of Tensile Strength 28-32 tons ✓ Are drum shell plates welded or flanged Solid Drawn ✓ Description of riveting:— Cir. seams ✓ long. seams ✓ Diameter of rivet holes in long. seams ✓ Pitch of Rivets ✓ Lap of plate or width of butt straps ✓ Thickness of straps ✓ Percentage strength of long. joint:—Plate ✓ Rivet ✓ Diameter of tube holes in drum 4 3/64" ✓ Pitch of tube holes 7¼" ✓ Percentage strength of shell in way of tubes 44·18 If Drum has a flat side state method of staying ✓ Depth and thickness of girders at centre (if fitted) ✓ Distance apart ✓ Number and pitch of stays in each ✓ Working pressure by rules ✓ **Steam Drum Heads or Ends:**—Material Steel Thickness 3" ✓ Radius or how stayed Hemisphere Size of Manhole or Handhole 15" × 11" ✓ **MUD ~~Water~~ Drums:**—Number in each boiler One Inside ~~Diameter~~ SQUARE 6" × 6" ✓ Material of plates Steel ✓ Thickness ¾" ✓ Range of tensile strength 24-28 tons ✓ Are drum shell plates welded or flanged Solid Drawn Description of riveting:—Cir. seams ✓ long. seams ✓ Diameter of Rivet Holes in long. seams ✓ Pitch of rivets ✓ Lap of plates or width of butt straps ✓ Thickness of straps ✓ Percentage strength of long. joint:—Plate ✓ Rivet ✓ Diameter of tube holes in drum 4 3/64" Pitch of tube holes 7¼" Percentage strength of drum shell in way of tubes 44·18 **MUD ~~Water~~ Drum ~~Heads or~~ Ends:**—Material Steel ✓ Thickness ¾ ✓ Radius or how stayed Flat ✓ Size of ~~manhole or~~ handhole 4 11/16 square **Headers or Sections:**—Number 23 Sections Per Blr. Material Steel ✓ Thickness ½" ✓ Tested by Hydraulic Pressure to 650 lbs ✓ Material of Stays ✓ Area at smallest part ✓ Area supported by each stay ✓ Working Pressure by Rules 500 lbs **Tubes:**—Diameter 4" × 1 13/16" Thickness 4 {1 L.S.G. 2 L.S.G.} 1 13/16" {9 L.S.G. 7 L.S.G.} Number 71 off 4" 898 " 1 13/16" ✓ **Steam Dome or Collector:**—Description of Joint to Shell ✓ Material ✓ Percentage strength of Joint ✓ Diameter ✓ Thickness of shell plates ✓ Description of longitudinal joint ✓ Diameter of Rivet Holes ✓ Pitch of Rivets ✓ Working Pressure of shell by Rules ✓ **Crown or End Plates:**—Material ✓ Thickness ✓ How stayed ✓

SUPERHEATER. Type U Type Date of Approval of Plan 26-6-29 Tested by Hydraulic Pressure to ✓ Date of Test ..... Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler ✓ Diameter of Safety Valve 2¼" ✓ Pressure to which each is adjusted ✓ Is easing gear fitted ..... Is a drain cock or valve fitted at lowest point of superheater yes ✓ Number, diameter, and thickness of tubes 112 off 1½" × 8 L.S.G. 400 for Blr 72 for Blr 40 " S/H

Spare Gear. Tubes 24-1½" × 8 LSG } S/H; 32-4" × 1 " × 9'-0", 4-4" × 2 " × 4'-2½", 4-4" × 2 " × 4'-3¾", 48-1 13/16" × 4 " × 9'-0" } Blr Gaskets or joints:—Manhole 48 Handhole Handhole plates 4 " S/H

The foregoing is a correct description,

Babcock & Wilcox, Ltd. Manufacturer.

Robert C. Paton

Dates of Survey while building { During progress of work in shops - - 1929 May 30 July 26 Aug 1·5·13·14·16 Sep 12·19·23·24·26 Oct 1·3·7·17·21·24·25·29·30 Nov 4·6·12·15 ; During erection on board vessel - - - 20·26·27 Dec 5·10·12 } Is the approved plan of boiler forwarded herewith ..... Total No. of visits 31

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These steam and water drums, Sections, muddrums and superheater boxes, have been built under survey, in accordance with the Rules and approved plans. The workmanship and materials are good. They have been despatched to Belfast for erection on board the S.S. "La Marea". These boilers have been re-built, tested to rule requirements & efficiently fastened in the vessel. John K. Williams. Belfast.

Bel A/c 1/13:11:D.

Survey Fee ... ... 3/5 £38-:7-4: } When applied for, ... 191 ..... When received, ... 191 .....

Travelling Expenses (if any) £ : :

MONTHLY ACCOUNT

G. E. Murdoch

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 24 DEC 1929

Assigned Deferred.

See Bel. 1st No. 10392

FRI. 11 JUL 1930

If not, state whether, and when, one will be sent?

Is a Report also sent on the Hull of the Ship?

[Im.11,13.-T.]

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