

REPORT ON WATER TUBE BOILERS.

No. 24353

17 NOV 1950

Received at London Office

Port of GRIMSBY. 15 NOV 1950

Port of GRIMSBY.

Survey held at GRIMSBY. Date, First Survey ----- Last Survey See Rpt. 9. 19

the Twin Sc. M.V. "AFRICAN QUEEN" (ex "BADGER") (Number of Visits -----) Gross 1966

Built at Rodby Havn By whom built A/S Rodby Havns Jernskib. When built 1920

Augsburg By whom made Maschinenfabrik Augsburg-Nurnberg A.G. When made 1941

By whom made Mumford. When made About 1911

Owners Colonial Development Corporation Port belonging to Gibraltar.

TUBE BOILERS - MAIN, AUXILIARY, OR DONKEY. - Manufacturers of Steel -

Date of Approval of plan ----- Number and Description or Type

Thornycroft Type. Working Pressure 120 lbs/sq.in. Tested by Hydraulic Pressure to 225 lbs/sq.in. Date of Test 13.10.49

D.21009 Can each boiler be worked separately Yes. Total Heating Surface of Boilers 240 sq.ft.

Area of fire grate (coal) in each Boiler ----- Total grate area of boilers in vessel including

No. and type of burners (oil) in each boiler 1 (one) No and description of safety valves on

Spring loaded Area of each valve 1.77 sq.ins. Pressure to which they are adjusted 120 lbs/sq.in.

In case of donkey boilers state whether steam from main boilers can enter the donkey boiler -----

Number in each boiler One. Inside diameter 1'8" Material of plates ----- Thickness 5/16" & 7/16"

Are drum shell plates welded or flanged Flanged. Description of riveting: -

11/16" R. 1 1/2" pitch. Doub. riv. doub. butt strap. Diameter of rivet holes in long. seams 9/16" Pitch of Rivets 2 1/4"

Thickness of straps 3/8" Percentage strength of long. joint 5/16" Plate 75% Rivet 108%

Pitch of tube holes 1 1/2" & 1 3/8" Percentage strength of shell in way of tubes 25%

In case of donkey boilers state whether steam from main boilers can enter the donkey boiler -----

Distance apart ----- Number and pitch of stays in each ----- Working pressure

Steam Drum Heads or Ends: - Material ----- Thickness 5/8" Radius or how stayed Radiused

Water Drums: - Number in each boiler Two. Inside Diameter D. 6" x 12"

Thickness 11/16" Range of tensile strength ----- Are drum shell plates welded

Description of riveting: - Cir. seams Single 11/16" R. x 1 1/2" pitch. Diameter of Rivet Holes in

Pitch of rivets ----- Lap of plates or width of butt straps ----- Thickness of straps -----

Diameter of tube holes in drum 1 1/8" & 7/8" Pitch of tube holes 1 1/2" & 1 3/8"

Length of drum shell in way of tubes 25% & 36% Water Drum Heads or Ends: - Material ----- Thickness 5/8"

Radius. Size of manhole or handhole 6" x 4" Headers or Sections: - Number -----

Thickness ----- Tested by Hydraulic Pressure to ----- Material of Stays -----

Area supported by each stay ----- Working Pressure by Rules ----- Tubes: - Diameter 1 1/2"

Number ----- Steam Dome or Collector: - Description of Joint to Shell -----

Length of Joint ----- Diameter ----- Thickness of shell plates ----- Material -----

Diameter of Rivet Holes ----- Pitch of Rivets ----- Working Pressure of shell

Crown or End Plates: - Material ----- Thickness ----- How stayed -----

ATER. Type ----- Date of Approval of Plan ----- Tested by Hydraulic Pressure to -----

Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler -----

Safety Valve ----- Pressure to which each is adjusted ----- Is easing gear fitted -----

Check or valve fitted at lowest point of superheater ----- Number, diameter, and thickness of tubes -----

Tubes ----- Gaskets or joints: - Manhole ----- Handhole ----- Handhole plates -----

The foregoing is a correct description,

Manufacturer.

Is the approved plan of boiler forwarded herewith -----

Total No. of visits -----

REMARKS (State quality of workmanship, opinions as to class, &c.)

Boiler is not new having been previously used before purchase for fitting in the Tw.Sc.M/V. "AFRICAN QUEEN" (ex "Badger"), to supply steam for steering engine, windlass and fish processing boiler was opened up, examined, tested hydraulically to 225 lbs/sq.in. and found in order. boiler was converted from coal to oil burning and on completion of installation examined steam, the safety valves adjusted to 120 lbs/sq.in. (Continued overleaf)

Expenses (if any) £ See Rpt. 9. } When applied for, 19
When received, 19

Engineer Surveyor to Lloyd's Register of Shipping.

TUES. 12 JUN 1951



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GENERAL REMARKS contd.

The materials and workmanship so far as could be seen were found satisfactory. It is recommended that the record of DBS 11,50 and the notation of "Fit for oil fuel 11,50 F.P. above 150 F." be made in the Register Book.

E. J. Davis



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