

REPORT ON WATER TUBE BOILERS.

No. 24353

17 NOV 1950

Received at London Office

15 NOV 1950

Port 9. 11. 19 50. When handed in at Local Office

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

Net 1252

Built at Rodby Havn

By whom built A/S Rodby Havns Jernskib.

When built 1920

Augsburg

By whom made

Maschinenfabrik Augsburg-Nürnberg A.G.

When made 1941

By whom made

Mumford.

When made About 1911

Power

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

Spring loaded

No. and type of burners (oil) in each boiler

1 (one)

No. and description of safety valves on

with easing gear

Yes.

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

between boilers or uptakes and bunkers or woodwork

18"

Height of Boiler

Width and Length

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" & 7/8"

Percentage strength of shell in way of tubes

25%

a flat side state method of staying

No.

Depth and thickness of girders at centre

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.

Handhole.

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

Length of long. joint: Plate

Rivet

Diameter of tube holes in drum 1 1/2" & 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

longitudinal joint

Diameter of Rivet Holes

Pitch of Rivets

Working Pressure of shell

Crown or End Plates: Material

Thickness

How stayed

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

Is easing gear 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.

ring progress of

work in shops

ring erection on

aboard vessel

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)

See Rpt. 9.

When applied for, 19

Expenses (if any) £

When received, 19

TUES. 12 JUN 1951

Engineer Surveyor to Lloyd's Register of Shipping.

Minute



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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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