

REPORT ON BOILERS.

No. 24353

Received at London Office 17 NOV 1950

Report 9.11. 1950. When handed in at Local Office 15 NOV 1950

Port of GRIMSBY.

held at GRIMSBY.

Date, First Survey ----

Last Survey See Rpt. 9. 19

Tw. 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.

Yard No. When built 1920

Augsburg

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

Engine Nos 853160 853170

When made 1940/41

Leiston

By whom made Garret.

Boiler No. - When made -

2 x 152.4.

Owners Colonial Development Corporation. Port belonging to

Gibraltar.

ULAR BOILERS - MAIN AUXILIARY, ~~OR DONKEY~~

Steel - (Letter for Record -)

Surface of Boilers 145 sq.ft.

Is forced draught fitted Yes.

Coal or Oil fired Oil

Number of Boilers 1 - Loco. Type Boiler.

Working Pressure 120 lbs/sq in.

Working pressure to 225 lbs/sq in. / Date of test 13.10.49. No. of Certificate D.21007. Can each boiler be worked separately Yes.

Area in each Boiler 6 sq.ft. No. and Description of safety valves to each boiler 2 - Spring loaded.

Number of valves per boiler {per Rule - as fitted 3.53 sq.ins. Pressure to which they are adjusted 120 lbs/sq in. Are they fitted with easing gear Yes.

Do the donkey boilers, state whether steam from main boilers can enter the donkey boiler -

Clearance between boilers or uptakes and bunkers or woodwork 18"

Is oil fuel carried in the double bottom under boilers -

Clearance between shell of boiler and tank top plating -

Is the bottom of the boiler insulated Yes.

Outside dia. of boilers 3'0" ✓ Length 8'10"

Shell plates: Material -

Tensile strength -

Thickness 16" ✓ Are the shell plates welded or flanged Flanged. Description of riveting: circ. seams {end Single lap. inter. Double lap.

Number of rivets per lap. Diameter of rivet holes in {circ. seams 5/4" ✓ long. seams 3/4" Pitch of rivets {1 3/4" and 2 3/4" 2 3/4"

Percentage of strength of circ. intermediate seam {plate 57% rivets 47% 73% 60%

Percentage of strength of longitudinal joint {plate 73% rivets 60% combined Working pressure of shell by Rules -

No. and Description of Furnaces in each Boiler -

Tensile strength - Smallest outside diameter -

Thickness of plates {crown - bottom - Description of longitudinal joint -

Working pressure of furnace by Rules -

Material - Tensile strength - Thickness - Pitch of stays -

Working pressure by Rules -

Material {front - back - Tensile strength - Thickness {9/16" ✓ 3/4" ✓

Pitch across wide water spaces - Working pressure {front - back -

Material - Tensile strength - Depth and thickness of girder

Length as per Rule - Distance apart - No. and pitch of stays

Working pressure by Rules - Fire Box Combustion chamber plates: Material -

Thickness: Sides 1/2" ✓ Back 1/2" ✓ Top 3/4" ✓ Bottom -

Are stays fitted with nuts or riveted over -

Front plate at bottom: Material - Tensile strength -

Lower back plate: Material - Tensile strength - Thickness -

Are stays fitted with nuts or riveted over -

Main stays: Material - Tensile strength -

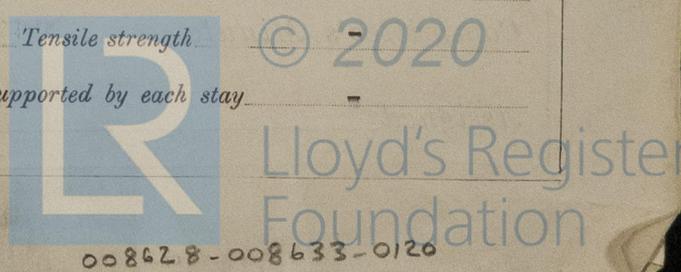
No. of threads per inch - Area supported by each stay -

Screw stays: Material - Tensile strength -

No. of threads per inch - Area supported by each stay -

7/8" ✓

JM
16/1/51



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Working pressure by Rules - Are the stays drilled at the outer ends - Margin stays: Diameter { At turned off part, or Over threads }
 No. of threads per inch - Area supported by each stay - Working pressure by Rules
 Tubes: Material - External diameter { Plain 3 1/2" & 2 1/2" ✓ Stay 2 3/4" ✓ } Thickness { 1/8" ✓ 1/4" ✓ } No. of threads per inch
 Pitch of tubes - Working pressure by Rules - Manhole compensation
 shell plate 14" x 10 1/2" ✓ Section of compensating ring 3 1/2" x 9/16" ✓ No. of rivets and diameter of rivet holes 26 -
 Outer row rivet pitch at ends - Depth of flange if manhole flanged - Steam Dome: Material
 Tensile strength - Thickness of shell - Description of longitudinal joint -
 Diameter of rivet holes - Pitch of rivets - Percentage of strength of joint { Plate Rivets }
 Internal diameter - Working pressure by Rules - Thickness of crown -
 stays - Inner radius of crown - Working pressure by Rules -
 How connected to shell - Size of doubling plate under dome - Diameter of
 of rivets in outer row in dome connection to shell -

Type of Superheater Manufacturers of { Tubes Steel forgings Steel castings }
 Number of elements Material of tubes Internal diameter and thickness of tubes
 Material of headers Tensile strength Thickness Can the superheater
 the boiler be worked separately Is a safety valve fitted to every part of the superheater which can be shut off from the boiler
 Area of each safety valve Are the safety valves fitted with casing gear
 Rules Pressure to which the safety valves are adjusted
 tubes forgings and castings and after assembly in place
 valves fitted to free the superheater from water where necessary
 Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with

The foregoing is a correct description of two

Dates of Survey { During progress of work in shops - - } Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
 while building { During erection on board vessel - - - } Total No. of visits -

Is this Boiler a duplicate of a previous case - If so, state Vessel's name and Report No. -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 The boiler is not new having been previously used before purchase for fitting in the "AFRICAN QUEEN" (ex "Badger"), to supply steam for steering engine, windlass and fish factory.
 The boiler was opened up, examined, tested hydraulically to 225 lbs/sq.in. and found satisfactory.
 The boiler was converted from coal to oil burning and on completion of installation under steam, the safety valves adjusted to 120 lbs/sq.in.
 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 "Fitted for oil fuel 11 above 150°F" be made in the Register Book.

Survey Fee ... £ See Rpt. 9. } When applied for, 19
 Travelling Expenses (if any) £ - : - : - } When received, 19

S. B. ...
 Engineer Surveyor to Lloyd's

Committee's Minute TUES. 12 JUN 1951

Assigned



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