

REPORT ON BOILERS.

No. 2435B

9. 11. 19 50. When handed in at Local Office 15 NOV 1950

Received at London Office

17 NOV 1950

Port of GRIMSBY.

GRIMSBY.

Date, First Survey -----

Last Survey See Rpt. 9. 19

(Number of Visits -) Gross 1966

Tons Net 1252

corres. M/V. "AFRICAN QUEEN" (ex "Badger")

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

Lincoln By whom made Ruston & Hornsby, Ltd.

Boiler No. 49641 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 206 sq.ft. Is forced draught fitted Yes. Coal or Oil fired Oil

Number of Boilers 1 - Ruston & Hornsby Type "B" Loco. Blr. No. 49641. Working Pressure 120 lbs/sq. in.

Working pressure to 270 lbs/sq. in. Date of test 7.10.49. No. of Certificate D.21008. 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.

Area 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.

4, 5, 2, 4 boilers, state whether steam from main boilers can enter the donkey boiler -

between boilers or uptakes and bunkers or woodwork 18" Is oil fuel carried in the double bottom under boilers -

Connection between shell of boiler and tank top plating - Is the bottom of the boiler insulated Yes.

Tube dia. of boilers 2'9" Length 10'4" Shell plates: Material - Tensile strength -

1/2" 7/16" Are the shell plates welded or flanged Flanged. Description of riveting: circ. seams { end Single lap. inter. -

Single lap Double rivet. Diameter of rivet holes in { circ. seams 3/4" long. seams 3/4" Pitch of rivets { 1 3/4" 2 3/4"

Percentage of strength of circ. intermediate seam { plate - rivets -

Length of longitudinal joint { plate 72.7% rivets 52.7% combined -

with straps { outer - inner - No. and Description of Furnaces in each Boiler -

Tensile strength - Smallest outside diameter -

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

stiffening rings on furnace or c.c. bottom -

Team space: Material - Tensile strength - Thickness - Pitch of stays -

secured -

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

stay tubes in nests - Pitch across wide water spaces -

in combustion chamber tops: Material - Tensile strength - Depth and thickness of girder -

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

Fire Box combustion chamber plates: Material -

Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom -

ditto: Sides 4 1/2" Back 4 1/2" Top 5" Are stays fitted with nuts or riveted over -

bottom: Material - Tensile strength -

Lower back plate: Material - Tensile strength - Thickness -

wide water space - Are stays fitted with nuts or riveted over -

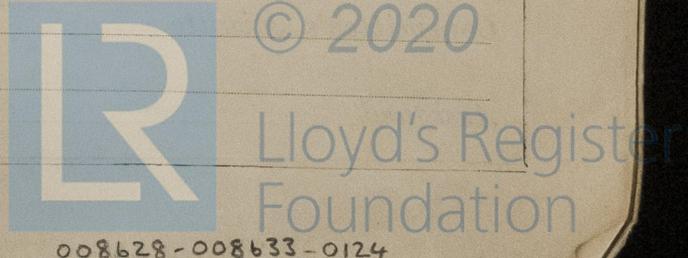
Material - Tensile strength -

ends of stay, heads 1.7/8" No. of threads per inch -

Material - Tensile strength -

ends of stay, heads 7/8" No. of threads per inch -

JM
16/1/51



Are the stays drilled at the outer ends Margin stays: Diameter (At turned off part, or Over threads)

No. of threads per inch

Tubes: Material External diameter { Plain 2.3/4" Stay 3 1/8" } Thickness { 1/8" 5/16" } No. of threads per inch

Pitch of tubes Manhole compensation

shell plate 15" x 12" Section of compensating ring 5" x 3/4" No. of rivets and diameter of rivet holes 32

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 Thickness of crown

stays Inner radius of crown

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 easing gear

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

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 M/V. "AFRICAN QUEEN" (ex "Badger"), to supply steam for steering engine, windlass and processing factory.

The boiler was opened up, examined, tested hydraulically to 270 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 11,50 F.P. above" be made in the Register Book.

Survey Fee ... £ See: Rpt. 9. } When applied for, 19

Travelling Expenses (if any) £ - : - : - } When received, 19

E. J. Davis
Engineer Surveyor to Lloyd's Register

Committee's Minute TUES. 12 JUN 1951

Assigned



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