

REPORT ON BOILERS.

No. 24353

Received at London Office 17 NOV 1950

Port 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
Tons { 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

ion of Boilers 1 - Loco. Type Boiler.

Working Pressure 120 lbs/sq in.

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

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

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

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 -

between shell of boiler and tank top plating -

Is the bottom of the boiler insulated Yes.

dia. of boilers 3'0" ✓ Length 8'10"

Shell plates: Material -

Tensile strength -

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

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

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

length of longitudinal joint { plate 73%
rivets 60%
combined

Working pressure of shell by Rules -

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

Tensile strength -

Smallest outside diameter -

part { top - Thickness of plates { crown -
bottom - bottom -

Description of longitudinal joint -

ffening rings on furnace or c.c. bottom -

Working pressure of furnace by Rules -

eam space: Material -

Tensile strength -

Thickness -

Pitch of stays -

secured - Working pressure by Rules

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

ay tubes in nests -

Pitch across wide water spaces -

Working pressure { front -
back -

nstion chamber tops: 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 -

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

e by Rules - Front plate at bottom: Material - Tensile strength -

Lower back plate: Material -

Tensile strength -

Thickness -

wide water space -

Are stays fitted with nuts or riveted over -

Main stays: Material -

Tensile strength -

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

ads 1 1/2" dia. ✓ Screw stays: Material - Tensile strength -

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

ed off part, -

reads 7/8" ✓

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Lloyd's Register
Foundation

008628-008633-0120

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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	{ Plate 3 1/2" & 2 1/2" Stay 2 3/4"	Thickness	{ 1/8" 1/4"
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 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 (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

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

Committee's Minute TUES. 12 JUN 1951

Assigned