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REPORT ON BOILERS.

No. 83444

Received at London Office 7 DEC 1920

e of writing Report 4th Dec 1920 When handed in at Local Office 7 DEC 1920 Port of Ipswich

No. in g. Book. Survey held at Kings Lynn Date, First Survey Last Survey 191

on the Donkey boiler for S.S. "Boynstone" (No 1134A) (Number of Visits) Tons { Gross / Net

ster Built at Lowestoft. By whom built J. Chambers Ltd. When built 1920

gines made at South Shields By whom made G. T. Grey & Co. When made 1920

lers made at By whom made When made

nistered Horse Power Owners Stone & Rolf Port belonging to Llanelly

ULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

r for record) **Total Heating Surface of Boilers** Is forced draft fitted **No. and Description of**

rs **Working Pressure** Tested by hydraulic pressure to Date of test

Certificate Can each boiler be worked separately **Area of fire grate in each boiler** No. and Description of

valves to each boiler Area of each valve Pressure to which they are adjusted

ey fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

est distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length

ial of shell plates Thickness Range of tensile strength Are the shell plates welded or flanged

p. of riveting: cir. seams long. seams Diameter of rivet holes in long. seams Pitch of rivets

f plates or width of butt straps Per centages of strength of longitudinal joint rivets / plate Working pressure of shell by

Size of manhole in shell Size of compensating ring **No. and Description of Furnaces in each**

Material Outside diameter Length of plain part top / bottom Thickness of plates crown / bottom

ption of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules Combustion chamber

: Material Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back

If stays are fitted with nuts or riveted heads Working pressure by rules Material of stays Area at

st part Area supported by each stay Working pressure by rules End plates in steam space: Material Thickness

of stays How are stays secured Working pressure by rules Material of stays Area at smallest part

supported by each stay Working pressure by rules Material of Front plates at bottom Thickness Material of

back plate Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes

of tubes Material of tube plates Thickness: Front Back Mean pitch of stays Pitch across wide

spaces Working pressures by rules Girders to Chamber tops: Material Depth and thickness of

at centre Length as per rule Distance apart Number and pitch of Stays in each

ng pressure by rules Steam dome: description of joint to shell % of strength of joint

ter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

of rivets Working pressure of shell by rules Crown plates Thickness How stayed

RHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

r of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

TICAL DONKEY BOILER— No. One. Description Vertical. Sprstube Manufacturers of steel Thos Firth & Sons & Lloyds & Bolckow Vaughan & Co Ltd.

t Kings Lynn By whom made Dodman & Co Ltd When made 1920 Where fixed Stockholt **Working pressure** 100lb

y hydraulic pressure to 200lb Date of test 27.10.20 No. of Certificate 216 Fire grate area 18ft Description of safety valves Spring loaded

afety valves 2.2in Area of ea 3.14in Pressure to which they are adjusted 100lb If fitted with easing gear Yes If steam from main boilers can

e donkey boiler No Dia. of donkey boiler 5'-6" Length 10'-0" Material of shell plates Steel Thickness 13/32" Range of tensile

h 29/32 Tons Descrip. of riveting long. seams Treble Riveted Lap Dia. of rivet holes 13/16" Whether punched or drilled Drilled Pitch of rivets 3 1/4

plating 5 5/8" Per centage of strength of joint Rivets 76 / Plates 100 Working pressure of shell by rules 102lb Thickness of shell crown plates 19/32"

of do. Flat No. of Stays to do. 8 Dia. of stays 1 3/4" Diameter of furnace Top 4'-6" Bottom 4'-11" Length of furnace 5'-0"

ess of furnace plates 19/32" Description of joint S. R. lap. Working pressure of furnace by rules 108lb. Thickness of furnace crown 19/32"

Radius of do. Flat Stayed by 8-1 3/4 stays Diameter of uptake 15" O/S. Thickness of uptake plates 7/16"

ess of water tubes .

The foregoing is a correct description,

For ALFRED DODMAN & Co. Ltd. Manufacturer.

Ashy Cruse Manr. Director.

During progress of work in shops - - } 1920 June 18 Sept 13. Oct 8.24.

During erection on board vessel - - - }

Total No. of visits 5

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

W91-0110

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

This boiler has been built under Special Survey. Material tested in accordance with the Rules, materials & workmanship are good.

On completion was tested by hydraulic pressure with Satisfactory results

Certificate (if required) to be sent to

(*The Surveyors are requested not to write on or below the space for Committee's Minute.*)

The amount of Entry Fee ..	£	:	:	When applied for,
Special	£	:	:	..19.. DEC 1920
Donkey Boiler Fee	£	2	: 2 : -	When received,
Travelling Expenses (if any)	£	1	: 19 : -	..19..

Committee's Minute FRI. 17 DEC. 1920

Assigned

A. E. Farmer

Engineer Surveyor to Lloyd's Register of Shipping