

REPORT ON BOILERS.

No. 2496.

Received at London Office

1919 NEW YORK Sept. 1, 1919
Date of writing Report 9.1.19 When handed in at Local Office 1919
No. in Survey held at Charleston W. Va. Date, First Survey 22.11.18 Last Survey 5.12.1918.
Reg. Book. on the Twin Screw Steamer "Edellyn" (Number of Visits 2) Gross 8413 Tons Net 5489
Master Ralph Gibson Built at Chester, Pa By whom built Sun Shipbuilding Co. When built 1919
Engines made at Trenton, Pa By whom made De Laval Steam Turbine Co. When made 1919
Boilers made at Charleston W. Va. By whom made The Charles Ward Engineering Co When made 1918.
Registered Horse Power Owners United States Shipping Board Port belonging to Washington

WATER TUBE BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Lukens I. & S. Co. Pa.

Letter for record S. Total Heating Surface of Boilers 8612^{sq} Is forced draft fitted Yes No. and Description of Boilers Water Tube Ward Type Working Pressure 300 lbs Tested by hydraulic pressure to 600 lbs Date of test Dec. 5th 1919
No. of Certificate 344 Can each boiler be worked separately Yes Area of fire grate in each boiler No. and Description of Safety valves to each boiler 2 Spring loaded Area of each valve 9.62^{sq} Pressure to which they are adjusted 300.
Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork 3' - Mean dia. of drums 60" Length 124 3/4

Material of shell plates S Thickness 13/16 Range of tensile strength 28-32 Are the shell plates welded or flanged No.

Description of riveting: cir. seams D.R.L. long. seams Q.R.B. Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 4.25" 6.375" 12.75"

Gap of plates or width of butt straps 21 3/4 - 15 1/2 Per centages of strength of longitudinal joint rivets 78.1 plate 91.6 Working pressure of shell by rules 303.87

Size of manhole in shell 15" x 11" Size of compensating ring Flanged No. and Description of Furnaces in each boiler

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

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

Material Steel Thickness: Sides 1/2" Front 1 1/2" Back 1 1/2" Top 1/2" Bottom 1" Pitch of stays to ditto: Sides Back 6 3/8"

If stays are fitted with nuts or riveted heads Header plates grooved + stay plate Working pressure by rules 450 lbs Material of stays Steel Area at smallest part 3/8" x 1" Area supported by each stay 6 3/8" Working pressure by rules End plates in steam space: Material S. Thickness 1"

Pitch of stays dist'd How are stays secured Working pressure by rules 310 lbs Material of stays Area at smallest part

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

Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes 2" x 4"

Pitch of tubes 2" = 3 3/4" + 3 3/4" Material of tube plates S Thickness: Front 1" Back 1" Mean pitch of stays Pitch across wide

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

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

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

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

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

SUPERHEATER. Type Foster Date of Approval of Plan New York Tested by Hydraulic Pressure to 600 lbs

Date of Test 12-6-19 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes

Diameter of Safety Valve 1 1/2" Pressure to which each is adjusted 308 lbs Is Easing Gear fitted Yes

VERTICAL DONKEY BOILER—No. Description Manufacturers of steel

Side at By whom made When made Where fixed Working pressure

Tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves

No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

Enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

Length Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

No. of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

The Charles Ward Engineering Works, Ltd., Manufacturers.

Is the approved plan of main boiler forwarded herewith

Is the approved plan of donkey boiler forwarded herewith

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002289-002297-0135

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

Drums + headers only subjected to a hydrostatic test of 600 lbs per sq. inch at Charleston W. Va., and afterwards shipped to the Sun Shipbuilding Co., at Chester, Pa., for assembling and installing.

Philadelphia Surveyors notified.

These boilers have been securely fitted on board the vessel & tested by hydraulic pressure to 600 lbs per sq. in. The safety valves have been adjusted under steam to 300 lbs per sq. in.

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 .. £
Special £
Donkey Boiler Fee £
Travelling Expenses (if any) \$104 : 20

When applied for,

When received,

Wm Stewart W. Rinkham
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned

See Phil Rpt 3363.



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Foundation