

REPORT ON BOILERS.

No. 2496.

Received at London Office

Date of writing Report 9. 1. 1919 When handed in at Local Office 1919 Port of Baltimore 3363
 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 "Edelwyn" (Number of Visits 2) } Gross 8413
 } 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
MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~.—Manufacturers of Steel Lukens I. & S. Co. Pa.

Letter for record S. Total Heating Surface of Boilers 8612 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 1918
 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 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}boilers 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.
 Descrip. 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 78.1 Working pressure of shell by rivets 91.6
 Plates 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 _____
 Description of longitudinal joint _____ No. of strengthening rings _____ Working pressure of furnace by the rules _____
 Plates: 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 plates 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" x 1" Working pressure by rules _____ End plates of drum 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 1/4" 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 _____
 Made 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 strength _____
 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 plates _____
 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, Charleston, Pa. Manufacturers.

During progress of work in shops - - -
 During erection on board vessel - - -
 Total No. of visits _____
 Is the approved plan of main boiler forwarded herewith _____
 " " " donkey " " "

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.)

Please credit 1/3 Fees to Baltimore

The amount of Entry Fee .. £	When applied for,
Special £19.....
Donkey Boiler Fee £	When received,
Travelling Expenses (if any) \$104.20	10/9/19

APB/M
1/10

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

Committee's Minute

Assigned

See Phil Rpt 3363.

SEP - 9 1919



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