

REPORT ON BOILERS.

No. 15745

Received at London Office

Port of New York and Philadelphia

Survey held at Bayonne N.J. Date, First Survey Last Survey Oct 30 1918

on the STEEL SCREW STEAMER "LIBERTY GLO"

Master J. Stouland Built at Philadelphia By whom built American International Corp. When built 1919

Engines made at Schenectady N.Y. By whom made General Electric Co. When made 1919

Boilers made at Bayonne N.J. By whom made Babcock & Wilcox Co. When made 1918

Registered Horse Power 600 Owners United States Shipping Board Emergency Fleet Corporation Port belonging to Philadelphia

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Lukin's Steel Co

Letter for record S Total Heating Surface of Boilers 8706 sq ft Is forced draft fitted yes No. and Description of Boilers Three Water Tube Working Pressure 200 lb Tested by hydraulic pressure to 400 lb Date of test 13/5/19

No. of Certificate 331 Can each boiler be worked separately. yes Area of fire grate in each boiler No. and Description of safety valves to each boiler Two direct spring Area of each valve 7.06 sq in Pressure to which they are adjusted 200 lb

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 Mean dia. of boilers 42 in Length 14' 7 3/8 in

Material of shell plates Steel Thickness 1/2 in Range of tensile strength 60,000 Are the shell plates welded or flanged No

Description of riveting: cir. seams SR Lap long. seams D.R.D.B.S. Diameter of rivet holes in long. seams 32 Pitch of rivets 2 9/16 in

Width of butt straps 9 3/4 in Per centages of strength of longitudinal joint rivets 108 Working pressure of shell by rules 80.1

No. and Description of Furnaces in each

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 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 Diameter at smallest part

Area supported by each stay Working pressure by rules End plates in steam space: Material Steel Thickness 19 in

How are stays secured 42 in Working pressure by rules 200 lb Material of stays Diameter at smallest part

Area 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

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

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

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

Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked

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

Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

Are they fitted with easing gear yes

VERTICAL DONKEY BOILER— No. Description Manufacturers of steel

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

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

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

Plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

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

The foregoing is a correct description, per J. Stouland, Manufacturer.

During progress of work in shops 1918: Mar 6 14 15 18 19 21 22 25 27 28 30 Apr 12 45 + daily until 30 Oct/18

During erection on board vessel -- Su Report 4a

Total No. of visits Is the approved plan of main boiler forwarded herewith

donkey



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

These boilers have been constructed under Special Survey and in accordance with plans approved July 18-1917. The workmanship and material are both of good quality. The steam-drums and sections have been tested by hydraulic pressure to 400 lbs per sq. inch, and found tight and sound. They have now been despatched for fitting aboard. To complete the survey the boilers to be re-erected on board, and tested by hydraulic pressure. All mountings to be examined and fitted. Safety-valves to be adjusted under steam.

Philadelphia:-

Boilers erected on board, mountings examined and fitted, hydraulic test of 400 lbs applied and safety valves adjusted under steam to 200 lbs. ✓

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 <i>A.P.D.</i> .. £	:	:	.....19.....
Donkey Boiler Fee .. .. £	:	:	When received,
Travelling Expenses (if any) £	:	:	.....13.....

Committee's Minute

New York AUG 19 1919

Assigned

*See Phil Rpt 3375*

*Alexander MacArthur*  
Engineer Surveyor to Lloyd's Register of Shipping.  
*Blalock*  
Lloyd's Register  
Foundation