

REPORT ON BOILERS.

No. 2982

Received at London Office
 Date of writing Report Sept 24 1918 REC'D NEW YORK Oct 5 1918 When handed in at Local Office 1918 Port of Philadelphia Pa
 No. in Survey held at Wilmington Del Date, First Survey March 9 1916 Last Survey Sept 21 1918
 Reg. Book. S.S. "O.T. Waring" (Number of Visits) 1 Gross 5.600 Tons Net
 Master W.J. Healy Built at Wilmington By whom built Bethlehem Ship Bldg Co (Harlan Plant) When built 1918
 Engines made at Wilmington Del By whom made Bethlehem Ship Bldg Co (Harlan Plant) When made 1918
 Boilers made at Wilmington Del By whom made Bethlehem Ship Bldg Co (Harlan Plant) When made 1916-17
 Registered Horse Power Emergency Fleet Corp Port belonging to Washington D.C.

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY.—Manufacturers of Steel Lukens

(Letter for record S) Total Heating Surface of Boilers 1344.5 Is forced draft fitted NO No. and Description of Boilers 1 SE Scotch Marine Working Pressure 180 lb Tested by hydraulic pressure to 240 lb Date of test 21-9-17

No. of Certificate 145 Can each boiler be worked separately ✓ Area of fire grate in each boiler 43.75 No. and Description of safety valves to each boiler 2 - 2 1/2" Spring loaded Area of each valve 4.9 Pressure to which they are adjusted 180 lb

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 8'-0" Mean dia. of boilers 11'-1" Length 11'-9"

Material of shell plates Steel Thickness 1" Range of tensile strength 60000-71680 Are the shell plates welded or flanged NO
 Descrip. of riveting: cir. seams D.R. long. seams TR. DBS Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 6 1/2"

Lap of plates or width of butt straps 16 1/4" Per centages of strength of longitudinal joint 90.9% Working pressure of shell by rules 183.9 lb Size of manhole in shell 12"x16" Size of compensating ring 30"x31"x1" No. and Description of Furnaces in each boiler 2 Morrison Material Steel Outside diameter 3'-10 1/8" Length of plain part top 19'-11 1/2" bottom 19'-11 1/2" Thickness of plates crown 9 1/16" bottom 9 1/16"

Description of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 191 lb Combustion chamber plates: Material Steel Thickness: Sides 2 1/32" Back 2 1/32" Top 2 1/32" Bottom 1 3/16" Pitch of stays to ditto: Sides 7 1/2"x7 1/2" Back 7 1/4"x7 1/2"

Top 7 1/2"x7 1/2" stays are fitted with nuts or riveted heads Riveted heads Working pressure by rules 196 lb Material of stays Steel Area at smallest part 1 1/2" Area supported by each stay 7 1/2"x7 1/2" Working pressure by rules 213.5 End-plates in steam space: Material Steel Thickness 3/4"

Pitch of stays 15"x15" How are stays secured By nuts Working pressure by rules 184 lb Material of stays Steel Area at smallest part 4 1/2"
 Area supported by each stay 22 1/2" Working pressure by rules 213.5 Material of Front plates at bottom Steel Thickness 3/4" Material of Lower back plate Steel Thickness 3/4" Greatest pitch of stays 15 1/2" Working pressure of plate by rules 264 lb Diameter of tubes 2 3/4"

Pitch of tubes 3 3/4"x4" Material of tube plates Steel Thickness: Front 3/16" Back 3/16" Mean pitch of stays 9 1/2" Pitch across wide water spaces 13" Working pressures by rules 212 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 9"x13 1/4" Length as per rule 33" Distance apart 7 1/2" Number and pitch of Stays in each 3-7 1/2"

Working pressure by rules 239.4 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 ✓

Is a Report also sent on the Hull of the Ship? ✓

Is the approved plan of boiler forwarded herewith ✓

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

Survey Fee £
 Travelling Expenses (if any) £

When applied for, 191
 When received, 191

See report 4

Committee's Minute

New York OCT 8 1918

Assigned

See Phil. Rpt 2982

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation