

REG'D NEW YORK June 3-1920

Rpt. 5c.

REPORT ON WATER TUBE BOILERS.

No. 17397

TUE. JUL. 20 1920

Received at London Office

Date of writing Report

Aug 11 1919

When handed in at Local Office

191

Port of New York

No. in Reg. Bk.

Survey held at Bayonne N.J. Gloucester N.J.

Date, First Survey

Last Survey Aug 7 1919

Master R. Maguire

Built at

Gloucester N.J.

By whom built

The Duxbury Jones Coy

When built

1920

Engines made at

Drexton N.J.

By whom made

De Laval Steam Turbine Coy

When made

1920

Boilers made at

Bayonne N.J.

By whom made

Babcock & Wilcox Co

When made

1919

Registered Horse Power

649

Owners

U.S. Shipping Board

Port belonging to

Gloucester City

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.

(Letter for Record *S*) Date of Approval of plan *July 18 1917* Number and Description or Type of Boilers *3 Water tube (B.W.)* Working Pressure *250 lbs.* Tested by Hydraulic Pressure to *410* Date of Test *6-5-20*

No. of Certificate *484* Can each boiler be worked separately *yes* Total Heating Surface of Boilers *8706* Is draught fitted *yes* Area of fire grate (coal) in each Boiler *87.5* Total grate area of boilers in vessel including Main and Auxiliary *912.5* No. and type of burners (oil) in each boiler *Three Coen* No. and description of safety valves on each boiler *Double spring loaded* Area of each valve *1.06 sq* Pressure to which they are adjusted *210 lbs.* Are they fitted with easing gear *yes* In case of donkey boilers state whether steam from main boilers can enter the donkey boiler *2 donkey* Smallest distance between boilers or uptakes and bunkers or woodwork *30"* Height of Boiler *12'-10"* Width and Length *14'-7 1/2" x 11'-7 1/8"* Steam Drums:—Number in each boiler *One* Inside diameter *42"* Material of plates *Steel* Thickness *1/2"* Range of Tensile Strength *85,650 lbs.* Are drum shell plates welded or flanged *No* Description of riveting:—Cir. seams *S.R. LAP.* long. seams *DR. D.B.S.* Diameter of rivet holes in long. seams *29/32* Pitch of Rivets *2 3/32" x 4 9/16"* Lap of plates or width of butt straps *9 1/4" x 15"* Thickness of straps *9/16"* Percentage strength of long. joint:—Plate *80%* Rivet *108%* Diameter of tube holes in drum *4 1/2"* Pitch of tube holes *7"* Percentage strength of shell in way of tubes *84.8%* If Drum has a flat side state method of staying *yes* Depth and thickness of girders at centre (if fitted) *243 lbs.* Distance apart *yes* Number and pitch of stays in each *yes* Working pressure by rules *243 lbs.* Steam Drum Heads or Ends:—Material *Steel* Thickness *9/16"* Radius or how stayed *42"* Size of Manhole or Handhole *15" x 11"* Water Drums:—Number in each boiler *yes* Inside Diameter *yes* Material of plates *yes* Thickness *yes* Range of tensile strength *yes* Are drum shell plates welded or flanged *yes* Description of riveting:—Cir. seams *yes* long. seams *yes* Diameter of Rivet Holes in long. seams *yes* Pitch of rivets *yes* Lap of plates or width of butt straps *yes* Thickness of straps *yes* Percentage strength of long. joint:—Plate *yes* Rivet *yes* Diameter of tube holes in drum *yes* Pitch of tube holes *yes* Percentage strength of drum shell in way of tubes *yes* Water Drum Heads or Ends:—Material *yes* Thickness *yes* Radius or how stayed *yes* Size of manhole or handhole *yes* Headers or Sections:—Number *24* Material *Steel* Thickness *9/16"* Tested by Hydraulic Pressure to *500 lbs.* Material of Stays *yes* Area at smallest part *yes* Area supported by each stay *yes* Working Pressure by Rules *289 lbs.* Tubes:—Diameter *4"* Thickness *1/8" B.W.G.* Number *240* Steam Dome or Collector:—Description of Joint to Shell *yes* Percentage strength of Joint *yes* Diameter *yes* Thickness of shell plates *yes* Material *yes* Description of longitudinal joint *yes* Diameter of Rivet Holes *yes* Pitch of Rivets *yes* Working Pressure of shell by Rules *yes* Crown or End Plates:—Material *yes* Thickness *yes* How stayed *yes*

UPERHEATER. Type *Horizontal* Date of Approval of Plan *approved in New York* Tested by Hydraulic Pressure to *410 lbs.* Date of Test *6-5-20* 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 *210 lbs.* Is easing gear fitted *yes* Is a drain cock or valve fitted at lowest point of superheater *yes* Number, diameter, and thickness of tubes *yes* Spare Gear. Tubes *fine* Gaskets or joints:—Manhole *yes* Handhole *9* Handhole *6*

The foregoing is a correct description,
The Babcock & Wilcox Co
per William Butts
Manufacturer.

Dates of Survey: During progress of work in shops *1919 July 4, 10, 11, 12, 14, 15, 16, 17 and daily* During erection on board vessel *until 7 Aug 1919*

Is the approved plan of boiler forwarded herewith *No*

Total No. of visits

GENERAL REMARKS

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

These Boilers have been constructed under Special Survey in accordance with approved plans. The materials & workmanship are good & efficient. To complete the Survey the boilers to be re-examined on board, all manholes to be fitted. Boilers to be tested by hydraulic pressure & safety valves adjusted under steam. These Boilers were installed in the vessel. Safety valves adjusted under steam & above pressure.

Survey Fee

£ 3 000

When applied for

191

Travelling Expenses (if any)

£ 000

When received

191

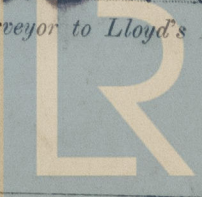
See Machinery report.

W. Hudson
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

New York JUL - 6 1920

Assigned Lee Phila 3863



Lloyd's Register of Shipping
Foundation