

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 1919 Port of New York

No. in Reg. Bk. Bayonne N.J. Gloucester N.J. Date, First Survey Aug 7 1919 Last Survey Aug 7 1919
 on the Water tube boiler for the New Steel S.S. John Jay Number of Visits 4
 Master R. Maguire Built at Gloucester N.J. By whom built The Dupont & Jones Coy Tons Gross 8292 Net 6164
 Engines made at Trenton N.J. By whom made De Laval Steam Turbine Coy When built 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. Manufacturers of Steel Lucas Iron & Steel Co

(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 210 lbs Tested by Hydraulic Pressure to 410 Date of Test 6-5-20

No. of Certificate H 54 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 No

Smallest distance between boilers or uptakes and bunkers or woodwork 30" Height of Boiler 12'-10" Width and Length 11'-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 55/65000 lbs. Are drum shell plates welded or flanged No Description of riveting:—

Cir. seams S.R. LAP. long. seams D.R.D.B.S. Diameter of rivet holes in long. seams 29/32 Pitch of Rivets 2 1/2" x 4 1/8"

lap of plate or width of butt straps 9 1/2" 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) Yes

Distance apart 24 3/8" Number and pitch of stays in each Yes Working pressure by rules 243 lbs.

Steam Drum Heads or Ends:—Material Steel Thickness 19/32 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 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 Goster 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 five Gaskets or joints:—Manhole Yes Handhole 9 Handhole plug 6

The foregoing is a correct description,
The Babcock & Wilcox Co
per Hubbard Maune Dept. Manufacturer.

Dates of Survey } During progress of 1919 July 4, 10, 11, 12, 14, 15, 16, 17 and daily
while building } During erection on board vessel. until 7 Aug/19
Is the approved plan of boiler forwarded herewith No
Total No. of visits 4

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 1919
Travelling Expenses (if any) £ 100 When received 1919
See Machinery reports.

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

Committee's Minute New York JUL - 6 1920
Assigned See Philadelphia 3863

