

REC'D NEW YORK July 1 1920

REPORT ON WATER TUBE BOILERS.

WED APR 5 1920

Received at London Office

t. 5c.

of writing Report 30 June 1919 When handed in at Local Office 191 Port of BUFFALO N.Y.

To. in Survey held at BUFFALO N.Y. Date, First Survey MARCH 25th 1919 Last Survey 29th May 1920

g. Bk. on the S.S. "City of Joliet" yard # 1448 Number of Visits 31 Tons { Gross 6527
 Net 4049

ster William Logan Built at WILMINGTON, NC By whom built CAROLINA S.B. Co. When built 1920-5

ines made at Hamilton, Ohio By whom made Hoover Owens & Reuschler Co. When made 1919

ilers made at BUFFALO N.Y. By whom made BARBER ASPHALT PAVING Co. When made 1919

gistered Horse Power 590 Owners U.S. Shipping Board Port belonging to Wilmington

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel MIDVALE STEEL Co PHILADELPHIA Pa.

ter for Record S Date of Approval of plan SEP 6th 1918 Number and Description or Type
Boilers 3 FOSTER WATER TUBE Working Pressure 225 LBS Tested by Hydraulic Pressure to 450 LBS Date of Test 27-6-19

of Certificate 160 Can each boiler be worked separately YES Total Heating Surface of Boilers 9150

uced draught fitted Yes Area of fire grate (coal) in each Boiler 75 Total grate area of boilers in vessel including
n and Auxiliary No. and type of burners (oil) in each boiler 4 Ball type No. and description of safety valves on
boiler 2 Spring loaded Area of each valve 9.424 Pressure to which they are adjusted 200 lbs

they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler ✓

allest distance between boilers or uptakes and bunkers or woodwork 8" Height of Boiler 15' 9 3/4" Width and Length 13' 2" x 14' 3"

am Drums:—Number in each boiler ONE Inside diameter 42" Material of plates O.H. STEEL Thickness 3/4"

age of Tensile Strength 60000 to 71680 LBS Are drum shell plates welded or flanged NO Description of riveting:—
seams SINGLE long. seams TREBLE Diameter of rivet holes in long. seams 15/16" Pitch of Rivets 7 3/4"

p of plate or width of butt straps INSIDE 20 1/4" Thickness of straps 9/16" Percentage strength of long. joint:—Plate 70.8 Rivet 60.9

iameter of tube holes in drum 3 3/8" Pitch of tube holes 7 3/4" Percentage strength of shell in way of tubes 66.9

Drum has a flat side state method of staying NO FLAT SIDES Depth and thickness of girders at centre
fitted) Distance apart ✓ Number and pitch of stays in each ✓ Working pressure
rules ✓ Steam Drum Heads or Ends:—Material O.H. STEEL Thickness 3/4" Radius or how stayed 42" RAD.

ce of Manhole or Handhole 11" x 15" Water Drums:—Number in each boiler NONE Inside Diameter ✓

aterial of plates ✓ Thickness ✓ Range of tensile strength ✓ Are drum shell plates welded
flanged ✓ Description of riveting:—Cir. seams ✓ long. seams ✓ Diameter of Rivet Holes in
ig. seams ✓ Pitch of rivets ✓ Lap of plates or width of butt straps ✓ Thickness of straps ✓

ercentage strength of long. joint:—Plate ✓ Rivet ✓ Diameter of tube holes in drum ✓ Pitch of tube holes ✓

ercentage strength of drum shell in way of tubes ✓ Water Drum Heads or Ends:—Material ✓ Thickness ✓

adius or how stayed ✓ Size of manhole or handhole ✓ Headers or Sections:—Number TWO

aterial O.H.S. Thickness 3/4" Tested by Hydraulic Pressure to 450 LBS Material of Stays IRON

ea at smallest part 1.632" Area supported by each stay 50.24" Working Pressure by Rules 243.6 LBS. Tubes:—Diameter 3"

ickness (10 B.W.G) 1/34" Number 489 Steam Dome or Collector:—Description of Joint to Shell NONE

ercentage strength of Joint ✓ Diameter ✓ Thickness of shell plates ✓ Material ✓

escription of longitudinal joint ✓ Diameter of Rivet Holes ✓ Pitch of Rivets ✓ Working Pressure of shell
Rules ✓ Crown or End Plates:—Material ✓ Thickness ✓ How stayed ✓

PERHEATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
ate of Test _____ Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler _____
iameter of Safety Valve _____ Pressure to which each is adjusted _____ Is easing gear fitted _____
a drain cock or valve fitted at lowest point of superheater _____ Number, diameter, and thickness of tubes _____
pare Gear. Tubes _____ Gaskets or joints:—Manhole _____ Handhole _____ Handhole plates _____

The foregoing is a correct description
The Barber Asphalt Paving Co. Engineers
Albert T. Clay for Manager

(16 VISITS)

Dates } During progress of work in shops - - } MAR. 25-26. Ap. 24-19. 24-28 MAY 1. 12. 17. 21. 27. JUNE 5. 11. 25. 27 Is the approved plan of boiler forwarded herewith RETAINED FOR DUPLICATE BOILERS.
while } During erection on board vessel - - - } Jan 29. Feb 4. 17. Mar 5. 17. 29. Ap. 13. 15. 17. 28 Total No. of visits 31
during } May 5. 11. 14. 25. 29.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been constructed under Special Survey:— The material and workmanship are sound and good:— The headers with tubes assembled and steam drums were tested separately:— Boilers to be assembled and final hydrostatic test made to complete Survey:— The Boilers have been properly fitted on board and on completion tested under steam. Safety valves have been adjusted to 200 lbs. H.P.

Survey Fee Buffalo: \$82.50 : : } When applied for, 191
Travelling Expenses (if any) £ : : } When received, 30/7/20
S. H. Osborn. Geo. Allan
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute _____
Assigned See Wilm. Rpt No. 98

New York JUL 13 1920
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