

REPORT ON WATER TUBE BOILERS.

No. 40295

AUG 19 1940

of writing Report July 10th 1940 When handed in at Local Office July 15, 40 Received at London Office
 in Survey held at New Jersey & Brooklyn, New York Port of New York
 Bk. 90502 on the S/S VALIENTE EX. OBRIEN BROTHERS. (Number of Visits 12) Tons { Gross 5967
 Net 3741
 at Portsmouth, New Hampshire By whom built Atlantic Corporation When built 1920
 lines made at Portsmouth, N.H. By whom made Atlantic Corporation When made 1920
 lers made at Oil City, Pennsylvania By whom made Atlantic Corporation When made 1920
 inal Horse Power 603 Owners Compania Diana De Vapores S.A. Port belonging to Panama

ATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Otis-Carnegie

e of Approval of plan 9th July 1940. Number and Description or Type

Boilers 3 Foster type water tub Working Pressure 215 Tested by Hydraulic Pressure to ✓ Date of Test ✓

of Certificate ✓ Can each boiler be worked separately yes Total Heating Surface of Boilers 9150

forced draught fitted yes (induction fan) Area of fire grate (coal) in each Boiler Oil fired

and type of burners (oil) in each boiler 4 Todd Hexpress No. and description of safety valves on

boiler 2 3" dia spring loaded on 2 tubes Area of each set of valve 14' 1/4" & 19' 2" Pressure to which they are adjusted 215 Lbs

they fitted with easing gear yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler none

llest distance between boilers or uptakes and bunkers or woodwork 7' 8" Height of boiler 15' 4" Width and Length 12' 6" x 14'

m Drums:—Number in each boiler one Inside diameter 42" Thickness of plates .75"

ge of Tensile Strength 55,000 Lbs. Are drum shell plates welded or flanged NO Description of riveting:—

seams single long. seams tube DBS Diameter of rivet holes in long. seams 15/16" Pitch of rivets 3 7/8" & 7 3/4"

of plates or width of butt straps 19 3/8" & 13 3/8" Thickness of straps 9/16" Percentage strength of long. joint:—Plate 87.8 Rivet 77.3

meter of tube holes in drum 3 1/2" Pitch of tube holes 7 3/4" Percentage strength of shell in way of tubes 60.7

king pressure by rules 360 Lbs Steam Drum Heads or Ends:—Range of tensile strength 55,000 Lbs Thickness of plates .75"

us or how stayed 42" Size of manhole or handhole 15" x 11" Working pressure by rules 215 Lbs Water Drums:—Number

ch boiler NONE Inside Diameter ✓ Thickness of plates ✓ Range of tensile strength ✓ Are drum shell plates

ed or flanged ✓ Description of riveting:—Cir. seams ✓ long. seam ✓ Diameter of rivet holes in

seams ✓ Pitch of rivets ✓ Lap of plates or width of butt straps ✓ Thickness of straps ✓

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

entage strength of drum shell in way of tubes ✓ Working pressure by rules ✓ Water Drum Heads or Ends:—Range of

ile strength NONE Thickness of plates ✓ Radius or how stayed ✓

of manhole or handhole ✓ Working pressure by rules ✓ Headers or Sections:—Number 2 each boiler

rial steel Thickness .75" Tested by Hydraulic Pressure to 267 Lbs Tubes:—Diameter 3"

tness #10 gauge .130" Number 444 each boiler Steam Dome or Collector:—Description of Joint to Shell NONE

le diameter ✓ Thickness of shell plates ✓ Range of tensile strength ✓

ription of longitudinal joint ✓ Diameter of rivet holes ✓ Pitch of rivets ✓ Lap of plate or width of

traps ✓ Thickness of straps ✓ Percentage strength of long. joint ✓ Plate ✓ Rivet ✓

king Pressure of shell by rules ✓ Crown or End Plates:—Range of tensile strength ✓

tness ✓ Radius or how stayed ✓ Working pressure by rules ✓

PERHEATER. Drums or Headers:—Number in each boiler NONE (ALL REMOVED) Inside Diameter ✓

tness ✓ Material ✓ Range of tensile strength ✓ Are drum shell plates welded

nged ✓ Description of riveting:—Cir. seams ✓ long. seams ✓ Diameter of rivet holes in

seams ✓ Pitch of rivets ✓ Lap of plates or width of butt straps ✓ Thickness of straps ✓

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

entage strength of drum shell in way of tubes ✓ Working pressure by rules ✓ Drum Heads or Ends:—

tness ✓ Range of tensile strength ✓ Radius or how stayed ✓ Size of manhole or handhole ✓

ing pressure by rules ✓ Number, diameter, and thickness of tubes ✓ Tested by Hydraulic Pressure to ✓

of Test ✓ Is a safety valve fitted to each section of the superheater which can be shut off from the boiler ✓

nd description of Safety Valves ✓ Area of each set of valves ✓

ure to which they are adjusted ✓ Is easing gear fitted ✓

re Gear. Has the spare gear required by the rules been supplied yes

The foregoing is a correct description,

Manufacturer.

During progress of work in shops ✓ Is the approved plan of boiler forwarded herewith yes
 During erection on board vessel ✓ Total No. of visits 12

boiler a duplicate of a previous case ✓ If so, state vessel's name and report No. ✓

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers were built in 1920 but not under special survey.

on however of a standard type (Foster) which was approved at that time. The steel was tested by U.S. Steamboat Inspectors as per their certificate.

and were tested in presence of the undersigned to 267 Lbs by hydraulic pressure & found good, afterwards examined internally & found good.

has adjusted to 215 Lbs under steam. These boilers are now in good & safe working condition & eligible in my opinion to be classed & to receive

notation 215 Lbs in the Register book, subject to being annually surveyed.

Survey Fee £150 When applied for 19

avelling Expenses (if any) £ When received 31. 7. 49

nittee's Minute NEW YORK JUL 24 1940 yes

ned 3 W.T.B. 215 Lbs

James A. Young & J.M. Belton
 Engineer Surveyors to Lloyd's Register of Shipping.

Lloyd's Register
 42-0050