pt. 5c.

REPORT ON WATER TUBE BOILERS.

No. 1228

Received at London Office 12 MAR 1945

Date of writing Report 2 Feb. 1945 When handed in at Local Office ..... 19 ..... Port of Jacksonville, Florida

No. in Supplement Survey held at Jacksonville, Fla. Date, First Survey 15th July Last Survey December 22nd 1944

Reg. Bk. 413 on the Tanker S/S "POUCOU" ex "GULFBELLE" (Number of Visits 8) Tons Gross 7104 Net 4346

Built at Chester, Pa. By whom built Sun Shipbuilding Co. When built 1936

Engines made at S. Philadelphia By whom made Westinghouse Electric & Mfg. Co. When made 1936

Boilers made at Carteret, N. Y. & Dansville By whom made Foster Wheeler Corpn. When made 1936

Nominal Horse Power 544 ~~619~~ Owners ..... Port belonging to Panama

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Bethlehem Steel Co.

Date of Approval of plan 17th August, 1944 Number and Description of Type Boilers Two F. W. Marine, Type "A"/3 drum Working Pressure 450 lbs. Tested by Hydraulic Pressure to 675 lbs. Date of Tests Star. 21 Aug, Pt. 3 Oct, 44

Date of Certificate ..... Can each boiler be worked separately Yes Total Heating Surface of Boilers 5640"

Is forced draught fitted Yes Area of fire grate (coal) in each Boiler Oil fired

Kind and type of burners (oil) in each boiler 3 Todd Express Type, Design "B" No. and description of safety valves on each boiler 2 Main S.V. Consolidated Ashcroft Area of each set of valves per boiler per rule 7.58 Sq. Inches as fitted 14.140 " " Pressure to which they are adjusted 450 & 455 Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler - Smallest distance between boilers or uptakes and bunkers or woodwork 3'-0" Height of boiler 17'-3 1/16"

Width and Length 12'-3 5/16" **Steam Drums:**—Number in each boiler 1 Inside diameter 48"

Thickness of plates 1 9/16" Range of Tensile Strength 60,000 lbs. Are drum shell plates welded or flanged Welded If fusion welded, state name of welding firm Foster Wheeler Corp. Have all the requirements of the rules for Class I vessels been complied with Surveyed by ABS Description of riveting:—Cir. seams - long. seams -

Diameter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum 2 1/32"-1 17/32" Pitch of tube holes 2"x7 3/4"-1 1/2"x3 7/8" & 3 1/4"

Percentage strength of shell in way of tubes .528 **Steam Drum Heads or Ends:**—Range of tensile strength 55,000 lbs.

Thickness of plates 1 17/32" Radius or how stayed Ellipsoidal Size of manhole or handhole 16" x 12" **Water Drums:**—Number in each boiler 2 Inside Diameter 30" Thickness of plates 1 3/16" Range of tensile strength 60,000 lbs. Are drum shell plates welded or flanged Welded If fusion welded, state name of welding firm Foster Wheeler Corp. Have all the requirements of the rules for Class I vessels been complied with Yes Description of riveting:—Cir. seams - long. seam -

Diameter of rivet holes in long. seams - Pitch of rivets - Thickness of straps 2"x7 3/4" -

Percentage strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum 2" & 1 1/2" Pitch of tube holes 1 1/2" x 3 1/4"

Percentage strength of drum shell in way of tubes ..... **Water Drum Heads or Ends:**—Range of Tensile strength 60,000

Thickness of plates 1 3/32" 3/32 Radius or how stayed Elipsoidal Size of manhole or handhole 16" x 12"

Headers or Sections:—Number ..... Material ..... Thickness ..... Tested by Hydraulic Pressure to .....

Tubes:—Diameter 1 1/2" & 2" O. D. Thickness .139 & .120 Number 46-2" & 760-1 1/2" **Steam Dome or Collector:**—Description of Joint to Shell - Inside diameter - Thickness of shell plates - Range of tensile strength ..... Description of longitudinal joint - If fusion welded, state name of welding firm ..... Have all the requirements of the rules for Class I vessels been complied with - Diameter of rivet holes -

Pitch of rivets - Thickness of straps - Percentage strength of long. Joint - Plate ..... Rivet -

Crown or End Plates:—Range of tensile strength - Thickness ..... Radius or how stayed -

SUPERHEATER.

~~Drum or~~ **Headers:**—Number in each boiler 2 Inside Diameter 7 3/4" Square

Thickness 1" Material Steel Range of tensile strength 60,000 lbs. Are drum shell plates welded or flanged Seamless If fusion welded, state name of welding firm - Have all the requirements of the rules for Class I vessels been complied with ..... Description of riveting:—Cir. seams - long. seams -

Diameter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of long. joint:—Plate - Rivet - Diameter of tube holes in ~~Drum~~ headers 1 1/4" Pitch of tube holes 2" Percentage strength of drum shell in way of tubes - ~~Drum Heads~~ Headers **or Ends:**— Thickness 1" Range of tensile strength 60,000 lbs.

Radius or how stayed Flat Size of ~~manhole or~~ handhole 2" H.H. Number, diameter, and thickness of tubes 320 x 1 1/4" x #10 gauge per Blr.

Tested by Hydraulic Pressure to 675 lbs. Date of Test Star. 21-Aug 44 Pt. 3 Oct. 1944 Has a safety valve fitted to each section of the superheater which can be shut off from the boiler Yes No. and description of Safety Valves 1 - 1 1/2" Consolidated Ashcroft Area of each set of valves 1.765 Sq. Inches Pressure to which they are adjusted 447 lbs. Is easing gear fitted Yes

Spare Gear. Has the spare gear required by the rules been supplied Yes

H.S. per blk = 2820 ℔ Total for 2 blks for Reg. Bk.
" " Spt = 853 ℔ = 9361 ℔
" " Scm = 2015 ℔

The foregoing is a correct description,

..... Manufacturer.

Dates of Survey ~~During progress of making shop~~ ~~During erection on board vessel~~ 15, 22, July; 14, 17, 21, Aug.; 2nd Sept.; 3rd Oct.; 22nd Dec., 1944 Is the approved plan of boiler forwarded herewith Yes Total No. of visits 8

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have not been built under Special Survey, but they have been examined, together with their mountings and found to comply with the rules or to be equivalent thereto, and found or made good. They were tested, in the presence of the undersigned, to 675 lbs per sq.in. by hydraulic pressure and were found sound & tight in every respect and showing no sign of weakness at that pressure. The safety valves were afterwrds adjusted (P.T.O.)

Survey Fee £ $50.00: When applied for, 5 Feb. 1945

Travelling Expenses (if any) £ 16.00: When received, ... 19

NEW YORK FEB 21 1945

Committee's Minute

Assigned 2 W.T.B. - 450 lbs.

J. M. Stewart

Engineer Surveyor to Lloyd's Register of Shipping.

004520-004526-0061

under steam. These boilers are now in good and safe working condition and eligible, in my opinio
to receive the notations 2-W.T.B. 450 lbs. 'Spt. 447 lbs.) & F.D. & H.S. 5640 in the Register
Book.

Rpt.

Date of

No. i

Reg. B
Supp.
91413

Built

Owners

Elect

Is the

Systen

Pressu

Direct

If alte

Has th

Gener

are the

Where

series

approx

Are al

short c

Positi

in way

woodw

are the

Earth

in me

Ami

a fuse

Switc

injury

horizo

mater

is it o

non-h

type...

omnib

"off"

switch

Are t

fire-r

meter

do th

H