

REPORT ON WATER TUBE BOILERS.

No. 10761

3 - MAR 1948

Received at London Office

Date of writing Report 20.2.1948. When handed in at Local Office 22.2.1948. Port of Falmouth

No. in Survey held at Falmouth Date, First Survey 7-1-48 Last Survey 5-2-1948

Reg. Book. 24169 on the S.S. 'FORT STEVENS' (Number of Visits 5) Gross 106.39 Tons Net 62.74

Built at Mobile, Ala. By whom built Alabama D.D. & S.B. Co. Yard No. When built 1944

Engines made at Lynn, Mass. By whom made General Electric Co. Engine No. When made 1944

Boilers made at By whom made Combustion Engineering Co. Inc. Boiler No. 7619 When made 1944

Nominal Horse Power Owners British Tanker Co. Ltd. Port belonging to London

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

Date of Approval of plan American Bureau No. and Description or Type

of Boilers 2 Babcock Type W.T. Boilers Working Pressure 500 lbs./sq. in. Tested by Hydraulic Pressure to 750 lbs./sq. in. Date of Test 22-9-44

No. of Certificate 1 Can each boiler be worked separately Yes Total Heating Surface of Boilers 11354 sq. ft. (including Superheater)

Is forced draught fitted Yes Area of Fire Grate (coal) in each Boiler 21.0

No. and type of burners (oil) in each boiler 4 - Todd's Hot Press No. and description of safety valves on

each boiler 2 - separate direct spring 5 1/2 lbs. each 1 1/2" dia. Area of each set of valves per boiler per rule 7.000

are adjusted 500 lbs./sq. in. Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter

the donkey boiler Yes Smallest distance between boilers or uptakes and bunkers 5'-0" Pressure to which they 6.28 + 1.778 psi

Width and length 11'-10" x 14'-5 1/2" 16-D. Steam Drums:—Number in each boiler ONE Inside diameter 45 1/2" x 42"

Thickness of plates 3/4" & 1 1/2" Range of tensile strength % A.B. requirements Are drum shell plates welded

or flanged Welded If fusion welded, state name of welding firm Bethlehem & Worth Steel Co. Have all the requirements of the Rules

for Class I vessels been complied with Yes Description of riveting:—Circ. 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 4.015" Pitch of tube holes 7"

Percentage strength of shell in way of tubes Steam Drum Heads or Ends:—Range of tensile strength % A.B. requirements

Thickness of plates 1 1/2" Radius or how stayed Ellipsoidal Size of manhole or handhole 16" x 12" Water Drums:—Number

in each boiler Inside diameter Thickness of plates Range of tensile strength Are drum shell plates

welded or flanged 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:—Circ. 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 Pitch of tube holes

Percentage strength of drum shell in way of tubes Water Drum Heads or Ends:—Range of tensile strength

Thickness of plates Radius or how stayed Size of manhole or handhole

Headers or Sections:—Number 12 Main headers boxes Material Steel Thickness 3/4" Tested by hydraulic pressure to 750 lbs./sq. in.

Tubes:—Diameter 1 1/2", 2" & 4" Thickness 13 B.W.G., 10 B.W.G., 5 B.W.G. Number 1148, 56, 882 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 for 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. Drums or Headers:—Number in each boiler 2 Inside diameter 7 1/4" square

Thickness 3/4" Material Steel Range of tensile strength % A.B. requirements Are drum shell plates welded

or flanged 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:—Circ. 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 1 1/4" Pitch of tube holes approx 2 3/4" Percentage strength of

drum shell in way of tubes Drum Heads or Ends:—Thickness Range of tensile strength

Radius or how stayed Size of manhole or handhole 4 1/2" x 3 3/8" Number, diameter, and thickness of tubes 148 @ 1 1/2" O.D. x 11 B.W.G.

Tested by hydraulic pressure to 750 lbs./sq. in. Date of test 22-9-44 Is a safety valve fitted to each section of the superheater which

can be shut off from the boiler Cannot be shut off No. and description of safety valves One 1 1/2" dia. single high lift Area of each set

of valves 1.227 sq. ft. 1.767 sq. ft. Pressure to which they are adjusted 46.4 lbs./sq. in. Is easing gear fitted Yes

Spare Gear. Has the spare gear required by the Rules been supplied.

The foregoing is a correct description,

Manufacturer.

Dates of Survey During progress of work in shops - - -

while building During erection on board vessel - - -

Is the approved plan of boiler forwarded herewith

Total No. of visits

Is this boiler a duplicate of a previous case. Yes. If so, state vessel's name and report No. T.2 Tankers

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. These boilers & superheaters have been built under the supervision of the American Bureau of Shipping. The scantlings have been verified as far as possible. The boilers are in good condition & are eligible in my opinion to be classed with record of A.S. 2+8 "Fitted for oil fuel, F.P. above 150°F.

Survey Fee ... £ : : When applied for 19

Travelling Expenses (if any) £ : : When received 19

Date

WED 7 APR 1948

Committee's Minute

See Rpt. 9

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

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