

REPORT ON WATER TUBE BOILERS.

No. 2346

Received at London Office.

29 APR 1948

of writing Report 16 March 1948 When handed in at Local Office 16 March 1948 Port of MORILE, ALABAMA
 in Survey held at Mobile, Alabama & Chickagaw, Ala. Date, First Survey 17 Sept. 1947 Last Survey 18 March 1948
 Bk. on the s.s. "SOUTH AFRICA STAR" ex HMS "Reaper" (Number of Visits 25) Tons { Gross 8015
 Net 4635
 at Tacoma, Washington By whom built Seattle Tacoma Shipbldg. Corp. When built 1944
 made at Essington, Pa. By whom made Allie Chalmers Nos.10056 & 57 When made 1943
 made at Carteret, New Jersey By whom made Foster Wheeler Corp. Nos.1480 & 81 When made October 1943
 Horse Power MN. 1488 Owners Blue Star Line Ltd. Port belonging to London

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

of Approval of plan 23 October 1947 Number and Description or Type
 Boilers Two F.W.Type "d" Marine Working Pressure 525 Tested by Hydraulic Pressure to 788 lb. Date of Test 7 Nov.1947
 of Certificate ABS N.Y.3830 & 31 Can each boiler be worked separately Yes Total Heating Surface of Boilers 15424 sq.ft.
 Forced draught fitted Yes Area of fire grate (coal) in each Boiler -
 and type of burners (oil) in each boiler Four Todd variable capacity No. and description of safety valves on

boiler Two 2 1/2" Crosby HNA-2 Area of each set of valves per boiler { per rule 9.816 sq.ins. Pressure to which they
 as fitted
 adjusted 520 & 522 Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter

donkey boiler Smallest distance between boilers or uptakes and bunkers 50" port 48" Stbd. Height of boiler 21'-0-5/8"

th and Length 18'-4-1/8" x 14'-5-1/16" Steam Drums:—Number in each boiler One Inside diameter 42"

ness of plates 1-19/32" Range of Tensile Strength 65,000 lbs. Are drum shell plates welded
 angled Welded If fusion welded, state name of welding firm Foster Wheeler Corp. Have all the requirements of the rules

Class I vessels been complied with to ABS. & USCG. Description of riveting:—Cir. seams - long. seams -
 meter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of

joint:—Plate - Rivet - Diameter of tube holes in drum 2-1/32" & 1-9/32" Pitch of tube holes 1 1/2", 2-3/4 & 2 1/2"
 ntage strength of shell in way of tubes 54.6 & 48.7 Steam Drum Heads or Ends:—Range of tensile strength 65000

ness of plates 1-11/32" & 7/8" Radius or how stayed Ellipsoidal Size of manhole or handhole 12"x16" Water Drums:—Number
 194 ch boiler One Inside Diameter 32" Thickness of plates 1-7/32" Range of tensile strength 65000 Are drum shell plates

ed or flanged Welded If fusion welded, state name of welding firm Foster Wheeler Corp. Have all the requirements of the rules
 Class I vessels been complied with USCG & ABS Description of riveting:—Cir. seams - long. seam -

meter of rivet holes in long. seams - Pitch of rivets - Thickness of straps -
 ntage strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum 2-1/32", 1-9/32" Pitch of tube holes 1 1/2", 2-3/4, 2 1/2"

ntage strength of drum shell in way of tubes 54.8 & 48.7 Water Drum Heads or Ends:—Range of Tensile strength 65000
 ness of plates 1-1/32 & 21/32" Radius or how stayed Ellipsoidal Size of manhole or handhole 12"x16"

ders or Sections:—Number Three Material Seamless Steel Thickness 7/8" Tested by Hydraulic Pressure to 788 lbs.
 es:—Diameter 2" & 1 1/4" Thickness 10 & 12 BWG Number - Steam Dome or Collector:—Description of

to Shell - Inside diameter - Thickness of shell plates - Range of tensile
 gth - Description of longitudinal joint - If fusion welded, state name of welding

- Have all the requirements of the rules for Class I vessels been complied with - Diameter of rivet holes -
 of rivets - Thickness of straps - Percentage strength of long. Joint - Plate - Rivet -

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

PERHEATER. Drums or Headers:—Number in each boiler Two Inside Diameter 8 1/2" square
 ness 1-1/8" Material Seamless Steel Range of tensile strength 65000 Are drum shell plates welded

anged - If fusion welded, state name of welding firm - Have all the requirements of the rules
 Class I vessels been complied with USCG & ABS Description of riveting:—Cir. seams - long. seams -

meter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of
 joint:—Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes 2-1/8" Percentage strength of

shell in way of tubes - Drum Heads or Ends:—Thickness - Range of tensile strength -
 is or how stayed - Size of manhole or handhole - Number, diameter, and thickness of tubes 1 1/2" x 10 BWG

able, d by Hydraulic Pressure to 788 lbs. Date of Test 7 November 1947 Is a safety valve fitted to each section of the superheater which
 e shut off from the boiler Yes No. and description of Safety Valves One 1 1/2" Crosby HNA-2 Area of each set

lves 1.767 sq.ins. Pressure to which they are adjusted 473 lbs. Is easing gear fitted Yes
 re Gear. Has the spare gear required by the rules been supplied Yes, except no feed valve lid supplied.

Only one feed connection on the boiler shell.
 Plan of Feed System attached.

The foregoing is a correct description,

Manufacturer.

During progress of work in shops -- Plans:— General Arrangement. Upper Drum. Is the approved plan of boiler forwarded herewith
 During erection on board vessel -- Lower Drum. Rear Headers. Side Headers
 Superheater Headers, for Sister Ship "RIQUIN" No.2322 Total No. of visits 25

Is boiler a duplicate of a previous case Yes If so, state vessel's name and report No. s.s. "RIMPANG" No.2337

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boilers with superheaters and economisers, mount-
s, doors and fastenings have been examined throughout and under an hydraulic pressure also under full working con-
tions and the safety valves adjusted. The boilers were built and installed under A.B.S. and U.S.C.G. survey. In
opinion the material, workmanship and installation are good and suitable to be classed with the machinery with
record of IMC 3,48.

Survey Fee \$ 150.00 : When applied for, 30 March 1948
 Travelling Expenses (if any) \$ 5.00 : When received, 19

Committee's Minute NEW YORK APR 7 1948

igned 2 WTB (SPT) 525 lbs.

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register

004745-004754-0077