

REPORT ON WATER TUBE BOILERS.

No. 14646

Received at London Office.

Date of writing Report 29th Aug 57 When handed in at Local Office 19 Port of TRIESTE
 No. in Survey held at Trieste Date, First Survey see Rpt 4a Last Survey 19
 Reg. Book. 0014 on the Steam Turbine Tanker "ADRIANA AUGUSTA" (Number of Visits) Gross 30383
 Built at Trieste By whom built C.R.D. Adriatico Yard No. 1823 When built 1957 - 8
 Engines made at Trieste By whom made C.R.D. Adriatico Engine No. 299/301 When made 1957
 Boilers made at Trieste & Mountaintop PA By whom made Foster Wheeler & CRDA Boiler No. 2031/2032 When made 1956/7
 HS for Register Book 20,140 Owners PRORA S.A.p. Palermo Port belonging to Palermo

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Lukens Steel Co., U.S.A.

Date of Approval of plan 29th July 1955 (New York) No. and Description or Type
 of Boilers Two Foster Wheeler 2 drum 'D' type Working Pressure 650 lb/sq.inch Tested by Hydraulic Pressure to 1025 Date of Test 6 & 13.12.56
 No. of Certificate 434/435 Can each boiler be worked separately Yes Total Heating Surface of Boilers 2x6290 (210) Superheaters 2x1295
 Half Economisers 2485 Is forced draught fitted Yes Area of Fire Grate (coal) in each Boiler Oil fired 20980

No. and type of burners (oil) in each boiler 3 Todd Burners No. and description of safety valves on
 each boiler 2. 2" dia. Full bore spring loaded Crosby Area of each set of valves per boiler { per rule 2.96 sq. ins.
 as fitted 3.1416 sq. ins. Pressure to which they

are adjusted 675 & 670 lb/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 No Smallest distance between boilers or uptakes and bunkers or woodwork Ample Height of boiler 24'-11 1/2"

Width and length 18' x 15'-4" Steam Drums:—Number in each boiler One Inside diameter 46 7/8" R. 2276
 Thickness of plates 1 3/16" and 3 7/16" Range of tensile strength 70,000 lbs/sq. ins. 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 (Phi Report 10496) Description of riveting:—Circ. seams long. seams

Diameter of rivet holes in long. seams Pitch of rivets Thickness of straps 1.278" 2.028" Percentage strength of
 long. joint:—Plate Rivet Diameter of tube holes in drum 3.026" Pitch of tube holes 1 7/8" 4 1/2
 Percentage strength of shell in way of tubes 31.3 Min. Steam Drum Heads or Ends:—Range of tensile strength 70,000 lb/sq. inc.
 Thickness of plates 1.3/16" Radius or how stayed Ellipsoidal Size of manhole or handhole 16" x 12" Water Drums:—Number
 in each boiler one Inside diameter 30 1/2" Thickness of plates 2 5/16" Range of tensile strength 70,000 lb/sq. in. Are drum shell plates
 welded or flanged welded If fusion welded, state name of welding firm Foster Wheeler Have all the requirements of the Rules
 for Class I vessels been complied with Yes (Phi Rpt. 10496) Description of riveting:—Circ. seams long. seams

Diameter of rivet holes in long. seams Pitch of rivets Thickness of straps As steam As steam
 Percentage strength of long. joint:—Plate Rivet Diameter of tube holes in drum drum Pitch of tube holes drum
 Percentage strength of drum shell in way of tubes 31.4 Water Drum Heads or Ends:—Range of tensile strength 70,000 lbs/sq. in.
 Thickness of plates 13/16" & 1 3/16" Radius or how stayed dished Size of manhole or handhole 16" x 12"
 Headers or Sections:—Number 3 Material S.M.S. Thickness 7/8" Tested by hydraulic pressure to 1063 PSI
 Tubes:—Diameter 1 1/4" & 2" Thickness 0.109" & 0.148" Number 1254 and 208 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 3 Inside diameter 7 3/4"
 Thickness 1 1/2" Material S.M.S. Range of tensile strength Pitt. Cert. T.9466 Are drum shell plates welded
 or flanged welded If fusion welded, state name of welding firm Foster Wheeler Have all the requirements of the Rules
 for Class I vessels been complied with Cle. Certif. C.10141 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 Drum Heads or Ends:—Thickness Range of tensile strength
 Radius or how stayed Size of manhole or handhole Number, diameter, and thickness of tubes 190-1 1/4" x 0.12"
 Tested by hydraulic pressure to 1052 PSI Date of test 12.4.57 & 7.5.57 Is 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 One. 1 1/2" dia. full bore spring loaded Area of each set
 of valves 1.765 sq. ins. Pressure to which they are adjusted 624 PSI Is easing gear fitted Yes

Spare Gear. Has the spare gear required by the Rules been supplied Yes
 Cantieri Riuniti Dell'Adriatico
 The foregoing is a correct description,
 Manufacturer.

Dates During progress of work in shops - - - Is the approved plan of boiler forwarded herewith Yes
 while building During erection on board vessel - - - See Rpt. 4 a Total No. of visits

Is this boiler similar to a previous case. yes If so, state vessel's name and report No. "MIRELLA d'AMICO" Tri. N° 13939
 GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. See Philadelphia Rpt. 5c N° 10496 and
 Cleveland, Ohio Cert. N°s. C.10025 and C.10141. The welded drums and headers were supplied by Foster
 Wheeler, U.S.A. Tubes (tested to Rule requirements) were manufactured in Italy. The boilers,
 superheaters and economisers have been assembled by C.R.D.A., in accordance with the approved plans
 and Rule requirements and have been hydraulically tested.

26 Survey Fee 234.450 £w 10% Lit. 498.283 When applied for 27.9 19 17
 Travelling Expenses (if any) See Rpt 4a When received 19

Date FRIDAY 25 OCT 1957
 Committee's Minute See Rpt 1

Contd.../

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on the ~~STEAM~~ STEAM TURBINE TANKER "ADRIANA AUGUSTA"

Boiler to 1025 PSI - Superheaters to 1052 PSI - Economisers to 1422 PSI on the 7th and 15th Jan., 1957 in the shops after assembly and again when efficiently installed aboard the above vessel.

The materials and workmanship are good.

Boilers, superheaters and economisers have been examined under steam and their safety valves adjusted as detailed above.

Satisfactory accumulation tests have been carried out.

A steam generator (See Genoa Cert. N^os. M.1561 and M.1583) has also been efficiently installed in the above vessel, examined under working condition and the safety valves adjusted to Rule requirements.

The two Main W.T. boilers and steam generator are eligible, in my opinion, for the highest classification and to have the notations :

2 W.T. boilers 650 PSI Supt. 624 PSI F.D. O.F.

Heating surface 20,140 sq.ft.

One steam generator 128 PSI

J. J. Watson