

REPORT ON WATER TUBE BOILERS. No. 19132

writing Report 29-12-52 19 When handed in at Local Office 25-1-1953 Port of GENOA
 Survey held at GENOA Date, First Survey 1-3-51 Last Survey 22-12-52 19
 on the TWIN SC. "ANDREA DORIA"
 (Number of Visits 15) Gross 29282 Tons Net 15788
 GENOA SESTRI By whom built SA. ANSALDO - CANTIERI NAVALI Yard No. 918 When built 1952
 made at GENOA - SAMPIERDARENA By whom made SA. ANSALDO - STABILIM. MECCANICO Engine No. 1422 When made 1952
 made at GENOA - SAMPIERDARENA By whom made SA. ANSALDO - STABILIM. MECCANICO Boiler No. 5176 When made 1952
 Horse Power Owners "ITALIA" S.p.A. per Azioni di NAVIGAZIONE Port belonging to GENOA

ER TUBE BOILERS ~~HEATER, DRUMS OR DONKEY~~ Manufacturers of Steel SOCIETA ITALIANA ACCIAIERIE CORNICLIANO - DALMINE

Approval of plan 6-12-50
 ers TWO - SECTIONAL HEADER V.T. BOILERS Working Pressure 10 kg/cm² Tested by Hydraulic Pressure to 19 kg/cm² Date of Test 20-9-51
 Certificate 270 - 271 Can each boiler be worked separately YES Total Heating Surface of Boilers 560 sq. m. (6088 sq. feet)
 draught fitted YES Area of Fire Grate (coal) in each Boiler
 type of burners (oil) in each boiler 2 - TOMB SYSTEM

No. and description of safety valves on
 COCKBURNS IMPROVED HIGH LIFT DOUBLE SPRING Area of each set of valves per boiler per rule 25 approved as fitted 9074 m² Pressure to which they
 tested 10 kg/cm² Are they fitted with easing gear YES In case of donkey boilers state whether steam from main boilers can enter
 key boiler No Smallest distance between boilers or uptakes and bunkers or woodwork 1500 m. Height of boiler 4920 m.

and length 3730 - 5020 m. Steam Drums: Number in each boiler ONE Inside diameter 1062 m.
 ss of plates 22 m. Range of tensile strength 41/47 kg/mm² Are drum shell plates welded
 and FUSION WELDED If fusion welded, state name of welding firm SA. ANSALDO - STABILIM. MECCANICO Have all the requirements of the Rules

I vessels been complied with YES Description of riveting: Circ. seams long. seams
 of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of
 nt: Plate Rivet Diameter of tube holes in drum 102,7 m. Pitch of tube holes 184 m.

ge strength of shell in way of tubes 44 % Steam Drum Heads or Ends: Range of tensile strength 41/47 kg/mm²
 ss of plates 22 m. Radius or how stayed 1000 m. Size of manhole 300 x 400 m. Water Drums: Number
 boiler Inside diameter Thickness of plates Range of tensile strength Are drum shell plates

or flanged If fusion welded, state name of welding firm Have all the requirements of the Rules
 I vessels been complied with Description of riveting: Circ. seams long. seams
 of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of
 ge strength of long. joint: Plate Rivet Diameter of tube holes in drum Pitch of tube holes

ge strength of drum shell in way of tubes Water Drum Heads or Ends: Range of tensile strength
 ss of plates Radius or how stayed Size of manhole or handhole Tested by hydraulic pressure to 70 kg/cm²
 or Sections: Number 30 Material S.M. STEEL Thickness 14 m. Number 45 - 15 - 360 & 60 Steam Dome or Collector: Description of

Diameter 102 - 89 - 51 m. Thickness 5 - 5 - 3 x 3,5 m. Thickness of shell plates Range of tensile
 hell Inside diameter Description of longitudinal joint If fusion welded, state name of welding
 Have all the requirements for the Rules for Class I vessels been complied with Diameter of rivet holes
 rivets Thickness of straps Percentage strength of long. joint plate rivet

r End Plates: Range of tensile strength Thickness Radius or how stayed
 HEATER, Drums or Headers: Number in each boiler Inside diameter
 Material Range of tensile strength Are drum shell plates welded

If fusion welded, state name of welding firm Have all the requirements of the Rules
 I vessels been complied with Description of riveting: Circ. seams long. seams
 of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of
 t: Plate Rivet Diameter of tube holes in drum Pitch of tube holes Percentage strength of

l in way of tubes Drum Heads or Ends: Thickness Range of tensile strength
 how stayed Size of manhole or handhole Number, diameter, and thickness of tubes
 hydraulic pressure to Date of test Is a safety valve fitted to each section of the superheater which
 ut off from the boiler No. and description of safety valves Area of each set

ear. Has the spare gear required by the Rules been supplied YES Is easing gear fitted
 ANSALDO S. A. The STABILIM. MECCANICO Manufacturer.
 During progress of work in shops From 1-3-51 To 22-10-51 Is the approved plan of boiler forwarded herewith No
 During erection on board vessel From 30-10-51 To 22-12-52 Total No. of visits 45

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

AL REMARKS (State quality of workmanship, opinions as to class, &c. THESE BOILERS HAVE BEEN CONSTRUCTED UNDER SPECIAL SURVEY OF TESTED
 AND ARE IN ACCORDANCE WITH THE APPROVED PLANS, SECRETARY'S LETTERS AND RULE REQUIREMENTS. THE MATERIALS, WORKMANSHIP AND WELDING
 ARE GOOD. THE BOILERS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE RULES FOR FUSION WELDED PRESSURE
 CLASS 1: THE X-RAY NEGATIVES TAKEN ON THE WELDED JOINTS HAVE BEEN EXAMINED AND WELDING FOUND SOUND. THE RESULTS OF THE
 TESTS WERE FOUND SATISFACTORY. UPON COMPLETION THE BOILERS HAVE BEEN EXAMINED UNDER HYDRAULIC PRESSURE TO 19 kg/cm²
 A TIGHT AND SOUND IN EVERY RESPECT AT THAT PRESSURE. AFTERWARDS THESE BOILERS HAVE BEEN SATISFACTORILY FITTED AND
 TESTED: SOME EXAMINED UNDER STEAM AND THEIR SAFETY VALVES ADJUSTED TO 10 kg/cm²

Fee 25% 128.200 = When applied for 3/2/ 1953
 velling Expenses (if any) 21.454 = When received 19
 R FUND 5.346 =
 RBV. TAX 6.150 =

Date TUES. 24 FEB 1953
 e's See F.E. mch. rpt.

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