

REPORT ON WATER TUBE BOILERS.

No. 23292

1957
 Survey Report 19/5/58 1958 When handed in at Local Office 26/1/58 1958 Port of GENOA
 Survey held at GENOA Date, First Survey 29/11/56 Last Survey 8/5/58
 on the Single Screw "MIRADOR" (Number of Visits 43) Gross 21020 Tons
 GENOA- SESTRI By whom built S.A. ANSALDO-CANTIERI Yard No. 1522 When built 1958
 GENOA-SAMPIERDARENA By whom made S.A. ANSALDO STABILIMENTO Engine No. 1603 When made 1957
 ditto By whom made ditto Boiler No. 6151 When made 1957
 Register Book Owners "MIRADOR" Cia Nav. Panama S.p.A. Port belonging to PANAMA R.P.

310R TUBE BOILERS MAIN, ~~XXXXXXXXXXXX~~ Manufacturers of Steel SIAC - DALMINE - TERNI
 60 Approval of plan 18/1/54
 If so, Two - two drums Foster Wheeler Working Pressure 47Kg/cm² Tested by Hydraulic Pressure to 74Kg/cm² No. and Description or Type
 Artificially 382-383 Can each boiler be worked separately. yes Total Heating Surface of Boilers 718 x 2 m² Date of Test 13/7/57
 Economisers 749 m² Is forced draught fitted. yes Area of Fire Grate (coal) in each Boiler - Superheaters 116.5 x 2 m²
 Type of burners (oil) in each boiler Three - TODD SYSTEM
 S.W. 1-3/4" Full bore safety valve with No. and description of safety valves on
 1" single control valve fitted on steam drum Area of each set of valves per boiler
 as fitted saf. valve 2.4 sq. in. Pressure to which they
 cont. " 0.2 sq. in.
 48.4 Kg/cm² Are they fitted with easing gear. yes In case of donkey boilers state whether steam from main boilers can enter
 boiler. Smallest distance between boilers or uptakes and bunkers 1500 mm. Height of boiler 8850 mm.
 Distance between length 5800 x 5200 mm. Steam Drums: Number in each boiler One Radius 680 x 705 mm.
 Inside 680 x 705 mm.
 Area of plates 90 x 40 mm. Range of tensile strength 49/55 Kg/mm² Are drum shell plates welded
 Fusion welded If fusion welded, state name of welding firm ANSALDO STABILIMENTO MECCANICO Have all the requirements of the Rules
 Are 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 32.6-51.7 mm. Percentage strength of
 Plate Rivet Diameter of tube holes in drum 83.8-103 mm. Pitch of tube holes 50-81 mm.
 31/1/58 strength of shell in way of tubes as approved Steam Drum Heads or Ends: Range of tensile strength 42/48 Kg/mm²
 of plates 65 mm. Radius 1200 mm. Size of manhole 300 x 400 mm. Water Drums: Number
 One Inside diameter 840 mm. Thickness of plates 63 mm. Range of tensile strength 44/50 mm. Are drum shell plates
 flanged Fusion welded If fusion welded, state name of welding firm ANSALDO STABILIMENTO MEC- 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 32.4-51.5 mm. Percentage strength of
 ge strength of long. joint: - Plate Rivet Diameter of tube holes in drum 83.6-102.8 mm. Pitch of tube holes 50-100 mm.
 ge strength of drum shell in way of tubes as approved Water Drum Heads or Ends: Range of tensile strength 42/48 Kg/mm²
 of plates 42 mm. Radius 750 mm. Size of manhole 300 x 400 mm.
 Section Number Three # 158 Material S.M. Steel Thickness 26 mm. Tested by hydraulic pressure to 74 Kg/cm²
 Diameter 32, 51, 83, 102 mm. Seamless Thickness 3, 4, 5, 9, 7 mm. Number 1386, 222, 2, 6. = Steam Dome or Collector: Description of
 Hell Inside diameter Thickness of shell plates Range of tensile
 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
 End Plates: Range of tensile strength Thickness Radius or how stayed
 HEATER, ~~XXXXXXXX~~ Headers: Number in each boiler Two Inside diameter 228 mm.
 32 mm. Material 0.5 Mo. Steel Range of tensile strength 45/55 Kg/mm² Are drum shell plates welded
 Seamless 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 Header Diameter of tube holes 32.4 mm. Pitch of tube holes 57 mm. Percentage strength of
 in way of tubes as approved ~~XXXXXXXX~~ Ends: Flat Thickness 38 mm. Range of tensile strength 45/55 Kg/mm²
 how stayed Sightholes 51.3 mm. Number, diameter, and thickness of tubes 184-32 mm. -3 mm.
 hydraulic pressure to 74 Kg/cm² Date of test 9 23 -9-57 Is a safety valve fitted to each section of the superheater ~~XXXX~~
 Saf. valv. 1 x 4.90 sq. in. No. and description of safety valves Cockburn 2" full bore safety valve
 Cont. " 1 x 0.44 sq. in. Pressure to which they are adjusted (48) Kg/cm² with 3/4" control valve fitted on steam drum Area of each set
 gear. Has the spare gear required by the Rules been supplied. yes Is easing gear fitted. yes

ANSALDO S.A.
 The foregoing is a correct description,
 Manufacturer.
 During progress of work in shops - From 29/11/56 To 23/9/57 Is the approved plan of boiler forwarded herewith. No
 During erection on board vessel - From 7/1/58 To 8/5/58 Total No. of visits 43

Under a duplicate of a previous case. yes If so, state vessel's name and report No. ITALIA MARTELLI FASSIO-See Genoa Rpt. 22501
 REMARKS (State quality of workmanship, opinions as to class, &c. of tested materials and are in accordance with the ap-
 plans, Secretary's Letters and Rule Requirements. The materials, workmanship and welding technique are good. The
 drums have been constructed in accordance with the Rule Requirements for fusion welded pressure vessel's Class
 X ray negatives taken on the entire welded seams have been examined and welding found sound. The result of the
 tests were found satisfactory. Upon completion the boilers have been examined under hydraulic pressure to 74
 and found tight and sound in every respect at that pressure. Afterwards the boilers have been satisfactorily fit-
 a fixed on board, examined under steam and the safety valves adjusted as above.
 rvey Fee 11,564,300... 12,623,521 When applied for 19/1/58
 travelling Expenses (if any) £ 12,623,521 When received 19
 CAR FUND 12,9593
 REV TAX 15,48
 Date FRIDAY 4 JUL 1958
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(A. Grasselli & S. Folio)
 Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register
 Foundation

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