

5c.

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 Received at London Office 7 FEB 1953

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 45) Gross 29082 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. 1432 When made 1952

made at GENOA-SAMPIERDARENA. By whom made SA ANSALDO-STABILIM. MECCANICO Boiler No. 5176 When made 1952

Horse Power. Owners "ITALIA" Soc. per Azioni di NAVIGAZIONE Port belonging to GENOA.

WATER TUBE BOILERS ~~HEAVY~~ OR DONKEY. - Manufacturers of Steel SOCIETA ITALIANA ACCIENERIE CORNICLIANO - DALMINE.

Approval of plan 6-12-50

Boilers 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. (6028 sq. feet)

draught fitted. YES Area of Fire Grate (coal) in each Boiler

type of burners (oil) in each boiler 2- TOBB SYSTEM.

Boiler COCKBURNS IMPROVED HIGH LIFT DOUBLE SPRING. Area of each set of valves per boiler per rule 25 approved. Pressure to which they as fitted 9074 mm²

tested 10 Kg/cm² Are they fitted with casing 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 mm. Height of boiler 4920 mm.

and length 3730 - 5020 mm. Steam Drums: Number in each boiler ONE Inside diameter 1062 mm.

plates 22 mm. 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 mm. Pitch of tube holes 184 mm.

ge strength of shell in way of tubes 44% Steam Drum Heads or Ends: Range of tensile strength 41/47 Kg/mm²

plates 22 mm. Radius or how stayed 1000 mm. Size of manhole 300 x 400 mm. 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

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

plates Radius or how stayed Size of manhole or handhole

or Sections: Number 30 Material S.M. STEEL Thickness 14 mm. Tested by hydraulic pressure to 70 Kg/cm²

Diameter 102-89-57 mm Thickness 5-5-3x3,5 mm Number 45-15-360 & 60 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

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

Percentage strength of long. joint plate rivet

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

Pressure to which they are adjusted Is easing gear fitted

ear. Has the spare gear required by the Rules been supplied YES

Manufacturer. ANSALDO S. A. The STABILIM. MECCANICO

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 I: 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 IS 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% 4x 128.200 = When applied for 3/2/ 1953

elling Expenses (if any) 4x 2.1454 = When received 19

R FUND 4x 5.346 =

RBY. TAX. 4x 6.150 =

Date TUES. 24 FEB 1953

ee's See F.E. meby opt.

