

REPORT ON WATER TUBE BOILERS.

No. 5217
211 AUG 1954

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Date of writing Report 8th July 1954. When handed in at Local Office 19 Port of NAPLES (PALERMO)

No. in Survey held at PALERMO Date, First Survey 27/11/53 Last Survey 19/5/54 10
 Reg. Bk. 6570. on the S/S "CONCA D'ORO" (Number of Visits 12.) Tons { Gross 12869.38
 Net 7679.90
 Built at PALERMO By whom built CANTIERI NAVALI RIUNITI When built 1954
 Engines made at RIVA TRIGOSO By whom made CANTIERI DEL TIRRENO When made 1954
 Boilers made at CARTERETAN. J. & PALERMO By whom made FOSTER WHEELER & CANT. NAV. RIUBITI When made 1954
 Nominal Horse Power 2,000. Owners "SICILIA" Soc. di Navigazione per Azioni. Port belonging to PALERMO

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel SHELL: LUKENS; HEADS: CLAYMONT

Date of Approval of plan JULY 1st 1952 Number and Description or Type of Boilers Two FOSTER WHEELER "D" Type Working Pressure 675Lbs Tested by Hydraulic Pressure to 1063Lb Date of Test Aug. 7, 1954

No. of Certificate B 5090 1&2 Can each boiler be worked separately YES Total Heating Surface of Boilers 21140 sq Ft
B 5091 1&2

Is forced draught fitted YES Area of fire grate (coal) in each Boiler 4 TODD TYPE No. and description of safety valves on each boiler TWO I.H.L. CROSBY TYPE at 2" Area of each set of valves per boiler As approved
660 Lbs sq Are they fitted with easing gear YES In case of donkey boilers state whether steam from main boilers can enter the donkey boiler 3 Ft. Height of boiler 25 Ft.

Width and Length 18"-7"x15'-45" Steam Drums:—Number in each boiler ONE Inside diameter 48" Pressure to which they are adjusted 660 Lbs sq Are they fitted with easing gear YES Thickness of straps 1.288"-2.038" Percentage strength of long. joint:—Plate 31.3 & 54.7 Rivet 3.034" Diameter of tube holes in drum 1.875" : 4.5"

Thickness of plates 1 3/16" WRAPPER 3 7/16" Range of Tensile Strength 70000 Lbs sq Min. 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 Description of riveting:—Cir. 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 1.288"-2.038" Pitch of tube holes 1.875" : 4.5"

Percentage strength of shell in way of tubes 31.3 & 54.7 Steam Drum Heads or Ends:—Range of tensile strength 69000 Lbs sq Min. Thickness of plates Plain 13/16" Radius or how stayed ELIPSOIDAL Size of manhole or handhole 12"x16" Water Drums:—Number in each boiler One Inside Diameter 30.5" Thickness of plates 2-5/16" Range of tensile strength 70000 Lbs sq 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 Description of riveting:—Cir. seams = long. seam =

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 1.288"-2.038" Pitch of tube holes 1.875" : 4.5"

Percentage strength of drum shell in way of tubes 31.9 : 54.7 Water Drum Heads or Ends:—Range of Tensile strength 70000 Lbs sq Min. Thickness of plates Plain 13/16" Radius or how stayed ELIPSOIDAL Size of manhole or handhole 12"x16"

Headers:—Number 3 Material S.M. Steel Thickness 0.906" Tested by Hydraulic Pressure to 1063 Lbs sq Tubes:—Diameter 1 1/4"-2"-3" Thickness 0.315" 0.109" 0.148" Number 1254 210 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 of 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. Headers:—Number in each boiler 4 SEAMLESS Inside Diameter 7 3/4" Thickness 1 1/2" Material Two seamless Carb. Holy Steel Carb. Range of tensile strength 60.000 55.000 Lbs sq Are drum shell plates welded or flanged = If fusion welded, state name of welding firm = Have all the requirements of the rules for Class I vessels been complied with = Description of riveting:—Cir. 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 1.27" Pitch of tube holes 1.78" Percentage strength of drum shell in way of tubes 32 Drum Heads or Ends:—FLAT Thickness 1.1" Range of tensile strength =

Radius or how stayed = Size of manhole or handhole 3 3/8"x2 3/4" Number, diameter, and thickness of tubes 188 at 1 1/4"x0.105" Tested by Hydraulic Pressure to 1063 Lbs sq Date of Test 11.12.53 Is a safety valve fitted YES

No. and description of Safety Valves ONE I.H.L. CROSBY TYPE Area of each set of valves 1.767" Pressure to which they are adjusted 610 Lbs sq Is easing gear fitted YES

Spare Gear. Has the spare gear required by the rules been supplied YES

The foregoing is a correct description, CANTIERI E STABILIMENTO MECCANICO DI PALERMO Manufacturer.

Dates of Survey while building { During progress of work in shops - - } 27/11/53 to 19/5/54 Is the approved plan of boiler forwarded herewith No
{ During erection on board vessel - - - } Total No. of visits 12.

Is this boiler a duplicate of a previous case YES If so, state vessel's name "GIORGIO FASSIO"

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Boilers have been constructed under Special Survey in accordance with the approved plans and Rule Requirements. Workmanship and materials are good. The Boilers have been efficiently installed on board the vessel, the safety valves adjusted under steam. (see also N.Y. Rpt No 52814.)

Survey Fee ... £ : : } When applied for, 10
 Travelling Expenses (if any) £ : : } When received, 10

Committee's Minute Assigned See Rpt. 4. FRIDAY 17 SEP 1954 Engineer Surveyor to Lloyd's Register of Shipping.