

REPORT ON WATER TUBE BOILERS.

No. 13939

Received at London Office

Date of writing Report 12th January 1954 When handed in at Local Office 23rd Jan 1954 Port of TRIESTE

No. in Survey held at Trieste - Monfalcone Date, First Survey Please see Rpt. Last Survey Ha 19.
 Reg. Bk. 2067 on the S.T. "MIRELLA d'AMICO" Number of Visits ✓ Tons { Gross 20417
 Net 12504
 Built at Monfalcone By whom built Cant. Riun. dell'Adriatico When built 1954
 Engines made at Trieste By whom made Cant. Riun. dell'Adriatico When made 1954
 Boilers made at Carteret U.S.A. - Trieste By whom made F.W. Co. & Cant. Riun. dell'Adriatico When made 1954
 Shaft registered Horse Power 14000 Owners Società di Navigaz. d'Amico Port belonging to Palermo

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Beth. Steel Co. & Dalmine S.p.A.
 Letter for Record ✓ Date of Approval of plan New York 21.4.52 Number and Description or Type
 of Boilers 2 W.T. - Foster Wheeler Working Pressure 650 lbs. Tested by Hydraulic Pressure to 1025 lbs. Date of Test 11-7-53
 No. of Certificate 402 & 403 Can each boiler be worked separately yes ✓ Total Heating Surface of Boilers 20980 sq. ft.
 Is forced draught fitted yes ✓ Area of fire grate (coal) in each Boiler 3 (Todd) Total grate area of boilers in vessel including
 Main and Auxiliary ✓ No. and type of burners (oil) in each boiler 3 (Todd) No. and description of safety valves on
 each boiler 2 on the main drums Area of each valve 3.1416 sq. in. Pressure to which they are adjusted 675 & 670 lbs. ✓
 Are they fitted with easing gear yes ✓ In case of donkey boilers state whether steam from main boilers can enter the donkey boiler ✓
 Smallest distance between boilers or uptakes and bunkers or woodwork ample Height of Boiler 24' 11 1/2" Width and Length 18' 0 1/8" x 15' 4 3/8"
 Steam Drums:—Number in each boiler 1 Inside diameter 48" ✓ Material of plates Elect. furn. steel Thickness 13/16" & 3/16" ✓
 Range of Tensile Strength 70,000 P.S.I. min. Are drum shell plates welded or flanged welded ✓ Description of riveting:—
 Cir. seams ✓ long. seams ✓ Diameter of rivet holes in long. seams ✓ Pitch of Rivets ✓
 Lap of plate or width of butt straps ✓ Thickness of straps ✓ Percentage strength of long. joint:—Plate ✓ Rivet ✓
 Diameter of tube holes in drum { 1.278" ✓ Pitch of tube holes 1.875" x 4.5" ✓ Percentage strength of shell in way of tubes 31.3 & 54.7
 If Drum has a flat side state method of staying ✓ Depth and thickness of girders at centre
 if fitted) ✓ Distance apart ✓ Number and pitch of stays in each ✓ Working pressure
 by rules as app. Steam Drum Heads or Ends:—Material Elect. furn. steel Thickness { main 1 3/16" ✓ Radius or how stayed Ellipsoid ✓
 Size of Manhole or Handhole 16" x 12" ✓ Water Drums:—Number in each boiler 1 ✓ Inside Diameter 30 1/2" ✓
 Material of plates Elect. furn. steel Thickness 2 5/16" ✓ Range of tensile strength 70,000 P.S.I. min. Are drum shell plates welded
 or flanged welded ✓ Description of riveting:—Cir. seams ✓ long. seams ✓ Diameter of Rivet Holes in
 long. seams ✓ Pitch of rivets ✓ Lap of plates or width of butt straps ✓ Thickness of straps ✓
 Percentage strength of long. joint:—Plate ✓ Rivet ✓ Diameter of tube holes in drum { 1.278" ✓ Pitch of tube holes 1.875" x 4.5"
 Percentage strength of drum shell in way of tubes 31.3 & 54.7 Water Drum Heads or Ends:—Material Elect. furn. steel Thickness 13/16" ✓
 Radius or how stayed Ellipsoid ✓ Size of manhole or handhole 16" x 12" ✓ Headers or Sections:—Number 3 ✓ main 1 3/16" ✓
 Material Elect. furn. steel Thickness .906" Tested by Hydraulic Pressure to 1025 lbs. Material of Stays ✓
 Area at smallest part ✓ Area supported by each stay ✓ Working Pressure by Rules as app. Tubes:—Diameter 3" - 2" - 1 1/4" ✓
 Thickness .315" & .203" / .148" / .109" Number 12 / 210 / 1254 Steam Dome or Collector:—Description of Joint to Shell ✓
 Percentage strength of Joint ✓ Diameter ✓ Thickness of shell plates ✓ Material ✓
 Description of longitudinal joint ✓ Diameter of Rivet Holes ✓ Pitch of Rivets ✓ Working Pressure of shell
 by Rules ✓ Crown or End Plates:—Material ✓ Thickness ✓ How stayed ✓
SUPERHEATER. Type F.W. Co. Date of Approval of Plan app. by New York Spt. Tested by Hydraulic Pressure to 1025 lbs.
 Date of Test 11-7-53 Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler yes ✓
 Diameter of Safety Valve 1 1/2" ✓ Pressure to which each is adjusted 624 lbs. ✓ Is easing gear fitted yes ✓
 Is a drain cock or valve fitted at lowest point of superheater yes ✓ Number, diameter, and thickness of tubes 190 - 1 1/4" - 0.12" ✓
 Spare Gear. Tubes To Gaskets or joints: Manhole Rule Handhole requir. Handhole plates

The foregoing is a correct description,

CANTIERI RIUNITI DELL'ADRIATICO

FABBRICA MACCHINE S. ANDREA

Manufacturer.

Dates of Survey { During progress of work in shops - -
 while building { During erection on board vessel - - -

see Rpt. Ha

Is the approved plan of boiler forwarded herewith app. in N.Y. (U.S.A.)

Total No. of visits ✓

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The fusion welded steam & water drums of these boilers, together with headers, superheaters & economisers were made & tested under the inspection of the U.S.A. Surveyors (see Rpt. 52573 - Clevel. Cert. C-8434 / C-8435 & Philad. Cert. C-6595 / C-6596) and subsequently despatched to Messrs. C.R.D.A. at Trieste where the boilers have been assembled and tested to Rule requirements. The workmanship and materials are good. The boilers were efficiently installed aboard the vessel a satisfactory accumulation test made under steam found tight and the safety valves adjusted for a working pressure of 650 P.S.I. at the main drums and of 624 P.S.I. at the superheater outlets. These boilers are, in my opinion, eligible for classification with records of: 2WT (Spt.) 650 lb - HS 20980 sq. ft. - FD
 Survey Fee When applied for, 19
 Travelling Expenses (if any) & When received, 19
 or Fee see Rpt. Ha)

TUESDAY 16 MAR 1954

DUAL CLASS
L.R. & P.I.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

See Rpt. Ha

011462-011973-0046

Lloyd's Register
Foundation