

## REPORT ON BOILERS.

119 NOV 1953

No. 19628

Received at London Office

of writing Report 12/10/53 When handed in at Local Office 21/10/53 Port of GENOA

Survey held at GENOA &amp; LA SPEZIA Date, First Survey 28-8-52 Last Survey 14-10-53

Boat on the TWIN SC. "FRANCESCO BIBOLINI" (Number of Visits 22) Gross 15320 Tons Net 9238

Built at MUCCIANO - LA SPEZIA By whom built S.A. ANSALDO - CANTIERE di MUCCIANO Yard No. 1484 When built 1953

Engines made at TURIN By whom made FIAT - STABILIMENTO GRANDI MOTORI Engine No. 3629 3630 When made 1952

Boilers made at GENOA - SAMPIERDARENA By whom made S.A. ANSALDO - STABILIMENTO MECCANICO Boiler No. 5512 5513 When made 1953

Owners C.I.A. di NAVIGAZIONE BIBOLINI S.p.A. Port belonging to GENOA.

## VERTICAL DONKEY BOILER.

Built at GENOA - SAMP. By whom made S.A. ANSALDO - STABIL. MECCAN. Boiler No. 5512 5513 When made 1953 Where fixed ON FATH AT THE AFTER END OF E.R.

Manufacturers of Steel: SOCIETA' ITALIANA ACCIAIERIE CORNIGLIANO - S.p.A. DIALMINE.

Heating Surface of Boilers 190 sq.m. (for each:  $F=65m^2 + F=30m^2$ ) forced draught fitted Coal or Oil fired COMPOSITE EXHAUST GAS and OIL.Description of Boilers TWO - THIMBLE TUBE ANSALDO - CLARKSON Working pressure 13 Kg/cm<sup>2</sup>Tested by hydraulic pressure to 23 Kg/cm<sup>2</sup> Date of test 28-2-53, 9-3-53 No. of Certificate 298, 299

No. and Description of safety valves to each boiler TWO SPRING LOADED ORDINARY SAFETY VALVES

Pressure to which they are adjusted 13 Kg/cm<sup>2</sup> Are they fitted with easing gear YES

Whether steam from main boilers can enter the donkey boiler

Is oil fuel carried in the double bottom under boiler No

Is the base of the boiler insulated YES Largest internal dia. of boiler 1870 mm Height 5400 mm

Material S.M. STEEL Tensile strength 42/48 Kg/mm<sup>2</sup> Thickness 26 mm

The shell plates welded or flanged FUSION WELDED If fusion welded, state name of welding firm S.A. ANSALDO - STABILIMENTO MECCANICO

All the requirements of the Rules for Class I vessels been complied with YES Description of riveting: circ. seams bottom: double

Dia. of rivet holes in circ. seams 36 mm Pitch of rivets 120.7 mm Percentage of strength of circ. seams plate 66.6 rivets 75.5

Thickness of butt straps outer inner Shell Crown: Whether complete hemisphere, dished partial

Material S.M. STEEL Tensile strength 42/48 Kg/mm<sup>2</sup> Thickness 28 mm

Description of Furnace: Plain, spherical, or dished crown DISHED CROWN Material S.M. STEEL

Tensile strength 42/48 Kg/mm<sup>2</sup> Thickness 20 mm External diameter top bottom Length as per rule

Are stays fitted with nuts or riveted over

Radius of spherical or dished furnace crown 800 mm

Thickness of Ogee Ring 35 mm Diameter as per rule D 1870 mm d 1066 mm

Material S.M. STEEL Tensile strength 42/48 Kg/mm<sup>2</sup> Thickness of top plate 42 mm

Thickness of back plate INSIDE OUTSIDE Diameter if circular 996 mm

Pitch of stays 2030 mm

Diameter of stays over thread

Material S.M. STEEL Tensile strength 42/48 Kg/mm<sup>2</sup> Thickness 42 mm Mean pitch of stay tubes in nests

Pitch in outer vertical rows thimble IN SHELL stay IN COMB. CHAM. stay

back alternate tube in outer vertical rows a stay tube

Material Tensile strength

Length as per rule

No. and pitch of stays in each



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Crown stays: Material ☒ Tensile strength ☒ Diameter { at body of stay ☒ or over threads ☒

No. of threads per inch ☒ Screw stays: Material ☒ Tensile strength ☒

Diameter { at turned off part ☒ or over threads ☒ No. of threads per inch ☒ Are the stays drilled at the outer ends ☒

THINBLE Tubes: Material S.M. STEEL External diameter { IN SHELL 63.5 m/m ☒ or IN COMB. CHAM. 70 m/m ☒ Thickness { 4 m/m ☒ or 4 m/m ☒

No. of thraeds per inch ☒ Pitch of tubes IN SHELL: { VERT. 264 m/m - IN COMB. CHAM. { VERT. 184 m/m HOR. 144 m/m HOR. 157 m/m

Manhole Compensation: Size of opening in shell plate 300x400 m/m Section of compensating ring ☒ No. of rivets and diameter of rivet holes ☒ Outer row rivet pitch at ends ☒ Depth of flange if manhole flanged ☒ 100 m/m

Uptake: External diameter 560 m/m ☒ Thickness of uptake plate 20 m/m 16 m/m ☒ 16 m/m ☒

Cross Tubes: No. ☒ External diameters { ☒ Thickness of plates ☒

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with YES **ANSALDO S. A. STABILIMENTO MECCANICO** Un Condirettore

The foregoing is a correct description,

Manufacture

Dates of Survey { During progress of work in shops - FROM 28-8-52 To 7-4-53 Is the approved plan of boiler forwarded herewith 18-7-52 (If not state date of approval.)

while building { During erection on board vessel - FROM 20-5-53 To 14-10-53 Total No. of visits 22

Is this Boiler a duplicate of a previous case NO If so, state Vessel's name and Report No. ☒

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.) THESE BOILERS HAVE BEEN CONSTRUCTED UNDER SPECIAL SURVEY OF TESTED MATERIALS AND ARE IN ACCORDANCE WITH THE APPROVED PLANS, SECRETARY'S LETTERS AND RULE REQUIREMENTS. THE MATERIALS, WORKMANSHIP AND WELDING TECHNIQUE ARE GOOD. THE BOILERS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE RULES FOR FUSION WELDED PRESSURE VESSELS OF CLASS X. THE X-RAY NEGATIVES TAKEN ON THE WELDED JOINTS HAVE BEEN EXAMINED AND WELDING FOUND SOUND. THE RESULTS OF THE ROUTINE TESTS WERE FOUND SATISFACTORY. UPON COMPLETION, THE BOILERS HAVE BEEN EXAMINED UNDER HYDRAULIC PRESSURE 23 Kg/cm<sup>2</sup> AND FOUND TIGHT AND SOUND IN EVERY RESPECT AT THAT PRESSURE. AFTERWARDS THESE BOILERS HAVE BEEN SATISFACTORILY FITTED AND FIXED ON BOARD SAME EXAMINED UNDER STEAM AND THEIR SAFETY VALVES ADJUSTED TO BLOW AT 13 Kg/cm<sup>2</sup>.

4.1. 126.000-

F.E. Survey Fee <u>102.100 =</u>	When applied for, <u>4/5/1953</u>
CAR RUN <u>2.148 =</u>	When received, <u>24/10/1953</u>
Travelling Expenses (if any) <u>13.958 =</u>	
REV. TAX. <u>3.696 =</u>	

Committee's Minute FRIDAY 4 DEC 1953

Assigned Lee Minnie on rule for 11.

Sherrill & Hills  
Engineer Surveyor to Lloyd's Register of Shipping.  
Lloyd's Register Foundation