

REPORT ON BOILERS.

No. 19418

25 JUL 1953

Received at London Office

When handed in at Local Office... July 1953 Port of Genoa
Date, First Survey 20 March 1953 Last Survey July 1953
(Number of Visits 11 - 12)
ANTIERI NAVALI PELLEGRINO YARD C.P. 94.
By whom built CANTIERI NAVALI PELLEGRINO Yard No. CP 94 When built 1953
By whom made SOC. ANON. FIAT S.M. Engine No. 3736 When made 1953
By whom made SOC. ANON. COOPERATIVA DI PRODUZIONE No. 686 When made 1953
Owners Port belonging to

BOILERS MAIN, AUXILIARY, OR DONKEY.

SIAC - SOCIETA' ITALIANA ACCIAIERIE CORNIGLIANO (Letter for Record (S).)

of Boilers 2 x 60 = 120 m² Of Superheaters
Is forced draught fitted YES. Coal or Oil fired YES.
Two CYLINDRICAL MULTITUBULAR DONKEY BOILERS Working Pressure 13 Kg/cm²
Date of test 27-6-53 No. of Certificate 302 Can each boiler be worked separately YES.
No. and Description of safety valves to each boiler Two: SPRING LOADED ORDINARY SAFETY
Pressure to which they are adjusted 3180 as fitted. Are they fitted with easing gear YES.
state whether steam from main boilers can enter the donkey boiler

Is oil fuel carried in the double bottom under boilers.
Is the bottom of the boiler insulated.
Length 3040 m. Shell plates: Material S.M. STEEL Tensile strength 41 ÷ 47 Kg/cm²
Have all the requirements of the Rules for Class I vessels

Are the shell plates welded or flanged RIVETED Description of riveting: circ. seams end DOUBLE inter DOUBLE
Diameter of rivet holes in circ. seams ends: 23 m. = inter: 25 m. Pitch of rivets inner row: 79.5 m. = outer: 159 m.
Percentage of strength of circ. intermediate seam plate 63. - rivets 63. -

No. and Description of Furnaces in each Boiler One = CORRUGATED MORISON SECTION
Tensile strength 41 ÷ 47 Kg/cm² Smallest outside diameter 980 m.
Thickness of plates 15 m. Description of longitudinal joint welded.

Material S.M. STEEL Tensile strength 41 ÷ 47 Kg/cm² Thickness 23 m. Pitch of stays
Pitch across wide water spaces 207 m.
Depth and thickness of girder

Material S.M. STEEL Tensile strength 41 ÷ 47 Kg/cm² Thickness 23 m.
Distance apart 160 m. No. and pitch of stays
Combustion chamber plates: Material S.M. STEEL

Thickness: Sides 16 m. Back 16 m. Top 16 m. Bottom 16 m.
Are stays fitted with nuts or riveted over RIVETED OVER

Material S.M. STEEL Tensile strength 41 ÷ 47 Kg/cm² Thickness 23 m.
Are stays fitted with nuts or riveted over

Material S.M. STEEL Tensile strength 41 ÷ 50 Kg/cm²
No. of threads per inch 13. -
Material S.M. STEEL Tensile strength 41 ÷ 47 Kg/cm²
No. of threads per inch Back: 13 = Sides + BOTTOM 9.

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Are the stays drilled at the outer ends... **NO** -

Margin stays: Diameter { At turned off or Over threads... }

No. of threads per inch... **12** -

Tubes: Material **S.M. STEEL** External diameter { Plain **70 mm** Stay **70 mm** Thickness **3.5 mm** No. of threads per inch **6.5 mm** }

Pitch of tubes... **90 mm** Manhole compensating shell-plate **400 x 500** Section of compensating ring **223 x 20 mm** No. of rivets and diameter of rivet holes... **36**

Outer row rivet pitch at ends... **112 mm** Depth of flange if manhole flanged... **76 mm** Steam Dome: Material **SINGLE**

Tensile strength... **41 = 47 kg/cm²** Thickness of shell... **15 mm** Description of longitudinal joint... **SINGLE**

Diameter of rivet holes... **23 mm** Pitch of rivets... **55 mm** Percentage of strength of joint { Plate Rivets... }

Internal diameter... **600 mm** Thickness of crown... **15 mm** Inner radius of crown... **600 mm**

How connected to shell... **RIVETED** Size of doubling plate under dome... **250 x 510 x 22 mm** Diameter of rivets in outer row in dome connection to shell... **φ 33 mm = 98 mm**

Type of Superheater... **RIVETED** Manufacturers of { Tubes... Steel forgings... Steel castings... }

Number of elements... **1** Material of tubes... **S.M. STEEL** Internal diameter and thickness of tubes... **70 mm x 3.5 mm**

Material of headers... **S.M. STEEL** Tensile strength... **41 = 47 kg/cm²** Thickness... **15 mm** Can the superheater be worked separately... **NO**

Is a safety valve fitted to every part of the superheater which can be shut off from the boiler... **NO**

Area of each safety valve... **100 cm²** Are the safety valves fitted with easing gear... **NO**

Pressure to which the safety valves are adjusted... **10 kg/cm²** tubes... **100 mm** forgings and castings... **100 mm** and after assembly in place... **100 mm**

valves fitted to free the superheater from water where necessary... **NO**

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with... **YES**

The foregoing is a correct description of the boiler and superheater... **YES**

IL DIRETTORE
Ing. Eugenio Breccardi

Are the approved plans of boiler and superheater forwarded to the authorities... **YES**

(If not state date of approval.)

Total No. of visits... **14**

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **These donkey boilers have been under special survey of tested materials and are in accordance with the approved letters, and Rules Requirements. - The materials, workmanship and welding technique. The end plates have been constructed in accordance with the Requirements of the Welded Pressure vessels of Class 1st, and carried out by Messrs. Aulardo, Macchini of Genoa - Sanfiora. - The X-ray negatives taken on the welded joints have and welding found found. - The results of the routine tests were found satisfactory. - The boilers have been examined under hydraulic pressure to 33 kg/cm² and found to be in every respect at that pressure. - These donkey boilers have now been dispatched to be fitted aboard the yard CP94 of Cantieri Navale Pellegriano. -**

Survey Fee **90.000** **15% = 13.500** **76.500**

Travelling Expenses (if any) **10.090** **1.530**

REV. TAX. **2.644**

When applied for... **3-7-1953**

When received... **19-10-1953**

DUAL
L. R.

Engineer Surveyor to Lloyd's Register

Committee's Minute

Assigned

See Rpt. 4 L.

FRIDAY 1 OCT 1954



Lloyd's Register
Foundation