

REPORT ON BOILERS.

No. 9958

Received at London Office

19 JUL 1927

of writing Report

in Surrey held at

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and

LTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel **Messrs August Thyssen Hutk & Messrs Krupp etc.**

Heating Surface of Boilers **4088 sq. metres**

and Description of Boilers **7 Double Ended Cylindrical Multitubular Scotch Type**

by hydraulic pressure to **26.70 Kg/cm²** Date of tests **18-5-27, 31-5-27, 7-7-27.**

of Firegrate in each Boiler **Oil fired** No. and Description of safety valves to each boiler

of each set of valves per boiler **as fitted** Pressure to which they are adjusted **-** Are they fitted with easing gear **-**

se of donkey boilers, state whether steam from main boilers can enter the donkey boiler **-**

test distance between boilers or uptakes and bunkers or woodwork **-** Is oil fuel carried in the double bottom under boilers **-**

test distance between shell of boiler and tank top plating **-** Is the bottom of the boiler insulated **-**

est internal dia. of boilers **5030 m/m** Length **6700 m/m** Shell plates: Material **Steel** Tensile strength **44-50 kgs.**

ness **41.5m/m** Are the shell plates welded or flanged **-** Description of riveting: circ. seams **Double Riveted**

seams **Treble riveted** Diameter of rivet holes in **40 m/m.** Pitch of rivets **100 & 117 m/m.**

centage of strength of circ. end seams **60%** Percentage of strength of circ. intermediate seam **65.8%**

centage of strength of longitudinal joint **85.4%** Working pressure of shell by Rules **15.46 kg.cm²**

ness of butt straps **32 m/m** No. and Description of Furnaces in each Boiler **8 - Morrison Corrugated**

Steel **Steel** Tensile strength **41-47** Smallest outside diameter **1057 m/m**

h of plain part **16 m/m** Thickness of plates **16 m/m** Description of longitudinal joint **Welded**

visions of stiffening rings on furnace or c.c. bottom **-** Working pressure of furnace by Rules **15.56 kg.cm²**

plates in steam space: Material **Steel** Tensile strength **41-47** Thickness **31 m/m** Pitch of stays **468 x 432 m/m**

d are stays secured **Double nuts and washers** Working pressure by Rules **15.56 kg.cm²**

plates: Material **Steel** Tensile strength **41-47** Thickness **23 m/m**

pitch of stay tubes in nests **270 x 210 m/m** Pitch across wide water spaces **356 m/m** Working pressure **15.9 kg.cm²**

rs to combustion chamber tops: Material **Steel** Tensile strength **44-50** Depth and thickness of girder

tre **232 x 36 m/m** Length as per Rule **746.5 m/m** Distance apart **203 m/m** No. and pitch of stays

h **2-228 m/m** Working pressure by Rules **20.5 kg.cm²** Combustion chamber plates: Material **Steel**

e strength **41-47** Thickness: Sides **17.5 m/m** Back **18.5 m/m** Top **17.5 m/m** Bottom **22 m/m**

of stays to ditto: Sides **203 x 228 m/m** Top **228 x 203** Are stays fitted with nuts or riveted over **Nuts**

ng pressure by Rules **16.3 & 16.0 kg.cm²** Tent plate at bottom: Material **Steel** Tensile strength **41-47**

ess **23 m/m** Lower back plate: Material **-** Tensile strength **-** Thickness **-**

of stays at wide water space **-** Are stays fitted with nuts or riveted over **-**

ng Pressure **-** Main stays: Material **Steel** Tensile strength **44-50**

At body of stay, **86 m/m** No. of threads per inch **6** Area supported by each stay **202,176 sq.mm.**

Over threads **-** Screw stays: Material **Steel** Tensile strength **41-47**

ng pressure by Rules **19.8 kg.cm²** No. of threads per inch **9** Area supported by each stay **46284 m/m² & 51562 m/m²**

At turned off part, **-** No. of threads per inch **9** Area supported by each stay **46284 m/m² & 51562 m/m²**

Over threads **44.5 m/m** No. of threads per inch **9** Area supported by each stay **46284 m/m² & 51562 m/m²**

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Working pressure by Rules **17.7 & 16** ^{kg.cm2} Are the stays drilled at the outer ends **No** ✓ Margin stays: Diameter { At turned off part, or Over threads **50.8 m/m** ✓
No. of threads per inch **9** ✓ Area supported by each stay **47705 sq.m/m** Working pressure by Rules **23.6 kg.cm2.**
Tubes; Material **Steel** External diameter { Plain **76** Thickness { **4.06 m/m** = **8 LSG** ✓
Pitch of tubes **108 x 105 m/m** Working pressure by Rules **17.5 kg.cm2** Manihole compensation: Size of opening **3/8** **5/16**
shell plate **404 x 540 m/m** Section of compensating ring **307 x 35 m/m** No. of rivets and diameter of rivet holes **40 - 40 mm.dia.**
Outer row rivet pitch at ends **273 m/m** Depth of flange if manhole flanged **102 m/m** Steam Dome: Material **-**
Tensile strength Thickness of shell Description of longitudinal joint
Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate Rivets
Internal diameter Working pressure by Rules Thickness of crown No. and diameter
stays Inner radius of crown Working pressure by Rules
How connected to shell Size of doubling plate under dome Diameter of rivet holes and
of rivets in outer row in dome connection to shell

Type of Superheater Manufacturers of { Tubes Steel castings
Number of elements Material of tubes Internal diameter and thickness of tubes
Material of headers Tensile strength Thickness Can the superheater be shut off
the boiler be worked separately Is a safety valve fitted to every part of the superheater which can be shut off from the boiler
Area of each safety valve Are the safety valves fitted with easing gear Working pressure
Rules Pressure to which the safety valves are adjusted Hydraulic test pressure
tubes castings and after assembly in place Are drain cocks or valves
to free the superheater from water where necessary

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with **-**

"ANSALDO, Società Anonima
STABILIMENTO MECCANICO
SAMPIERDARENA

THE DIRECTOR
The foregoing is a correct description,
[Signature]

Dates of Survey { During progress of work in shops - - 1926-Nov.10,19 Dec.2,6,15,1927- Jan.27, Feb.3,8,8,14,18,22, March 2,3,4,10,11
while building { During erection on board vessel - - April 7,11,12,25,28,28, May 3,4,12,16,18,19,25,31
Total No. of visits **37**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **These boilers have been constructed tested materials under Special Survey and in accordance with approved plans, Secretary's letters Rule Requirements. The workmanship and materials are good and when tested hydraulically at 26.7 cm. were found tight and satisfactory. These boilers are intended for the S/S "CONTE GRANDE" now building at Trieste, and will be eligible in our opinion to be classed in the Register Book when they have been satisfactorily fitted on all safety valves and mountings fitted; safety valves adjusted under steam and accumulation test satisfactorily carried out.**

Survey Fee ... Lit. 7450.-
Travelling Expenses (if any) £ " 500.-

When applied for, 16-7-1927
When received, 29-7-1927
Recd: Sir Landon News 29/7/27

[Signature] Y.R. Morrison & J.W. Leicester
Engineer Surveyors to Lloyd's Register of Ships

Committee's Minute TUES. 3 APR 1928

Assigned *[Signature]* See Tri. G.E. v. H. No 7869



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Foundation