

9293

REPORT ON BOILERS.

No. 9293

Received at London Office

18 FEB 1926

Report

192

When handed in at Local Office

13/2/1926

Port of

Genoa

held at

Genoa

Date, First Survey

10. 8. 25

Last Survey

1. 12. 1925

Steel Sc. Sr "Splendor"

(Number of Visits 19)

Gross 6279

Net 3724

Built at

Genoa

By whom built

A. Odoro & Co

Yard No.

When built 1913

Sestri Ponente, Genoa

By whom made

A. Odoro & Co

Engine No.

When made 1913

4000. Genoa

By whom made

A. Odoro & Co

Boiler No.

When made 1926

Power

395

Owners

La Columbia Soc. Mar. per Pet. e. Derivati

Port belonging to

Genoa

BULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

of Steel August Thyssen Hütte, G. u. v. e. r. s. c. h. a. f. t. of Mulheim - Ruhr. (Letter for Record (S) ✓)

Surface of Boilers 146 m² per boiler 5682 p Is forced draught fitted yes ✓ Coal or Oil fired yes ✓Position of Boilers 3. S.E. Horizontal multitubular marine type Working Pressure 16 kg/cm² 227 kg/cm²Gauge pressure to 24.5 kg/cm² Date of test 21-11-25 26-11-25 1-12-25 No. of Certificate 165 167 169 Can each boiler be worked separately yes ✓

No. and Description of safety valves to each boiler 2. Spring loaded

No. of valves per boiler per Rule 25.2 11.72 as fitted 24.4 11.72 Pressure to which they are adjusted 16 kg/cm² Are they fitted with easing gear yes ✓

Boilers, state whether steam from main boilers can enter the donkey boiler no ✓

between boilers or uptakes and bunkers or woodwork 9" ✓ Is oil fuel carried in the double bottom under boilers yes ✓

between shell of boiler and tank top plating 18" ✓ Is the bottom of the boiler insulated yes ✓

dia. of boilers 4000 mm Length 3286 mm Shell plates: Material Steel ✓ Tensile strength 44-50 kg/cm²

3 mm Are the shell plates welded or flanged no ✓ Description of riveting: circ. seams end D.R. 219 ZA9 ✓

Double butt straps Diameter of rivet holes in circ. seams 32 mm ✓ Pitch of rivets 85 mm ✓

length of circ. end seams plate 62.5% rivets 46.8% Percentage of strength of circ. intermediate seam plate ✓ rivets ✓

length of longitudinal joint plate 89.4% rivets 94% combined 93% Working pressure of shell by Rules 16.2 kg/cm²

straps outer 33 mm inner 33 mm No. and Description of Furnaces in each Boiler 3. Morrison type ✓

Steel Tensile strength 38. Smallest outside diameter 936 mm ✓

art top Thickness of plates crown 18 mm ✓ Description of longitudinal joint welded ✓

bottom Thickness of plates bottom 18 mm ✓

Fining rings on furnace or c.c. bottom 80 mm x 80 mm x 15 Working pressure of furnace by Rules 19.8 kg/cm²

am space: Material Steel ✓ Tensile strength 41-47 ✓ Thickness 24 ✓ Pitch of stays 385 x 360 ✓

ured Double nuts and washers. Working pressure by Rules 19.2 kg/cm²

erial front Steel Tensile strength 41-47 ✓ Thickness 24 mm ✓

back Steel Tensile strength 41-47 ✓ Thickness 22 mm ✓

tubes in nests 184 ✓ Pitch across wide water spaces 325 ✓ Working pressure front 14.5 kg/cm² back

stion chamber tops: Material Steel ✓ Tensile strength 44-50 ✓ Depth and thickness of girder

x 20. Length as per Rule 650 ✓ Distance apart 195 ✓ No. and pitch of stays

140. Working pressure by Rules 21.9 kg/cm² Combustion chamber plates: Material Steel ✓

41-47. Thickness: Sides 16.5 mm Back 16.5 mm Top 16.5 mm Bottom 25 mm ✓

to: Sides 170 x 170. Back 170 x 170. Top 170 x 195 Are stays fitted with nuts or riveted over both ✓

by Rules 15.5 kg/cm² Front plate at bottom: Material Steel ✓ Tensile strength 41-47 ✓

20 mm Lower back plate: Material Steel ✓ Tensile strength 41-47 ✓ Thickness 22 mm ✓

side water space 321 x 170. Are stays fitted with nuts or riveted over nuts ✓

Main stays: Material Steel ✓ Tensile strength 45-50 ✓

stay 68 mm No. of threads per inch 10. Area supported by each stay 385 x 360 ✓

76 mm Rules 20.8 kg/cm² Screw stays: Material Steel ✓ Tensile strength 41-47 ✓

part 34 mm No. of threads per inch 9. Area supported by each stay 170 x 170 ✓

38 mm

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Foundation

Working pressure by Rules 15.6 kg/cm^2 Are the stays drilled at the outer ends ☒ Margin stays: Diameter $\begin{cases} \text{At turned off part} & 40 \text{ mm} \\ \text{or} & \\ \text{Over threads} & 44 \text{ mm} \end{cases}$

No. of threads per inch 9 Area supported by each stay 612 Working pressure by Rules 22.5 kg/cm^2

Tubes: Material Steel External diameter $\begin{cases} \text{Plain} & 63 \\ \text{Stay} & 63 \end{cases}$ Thickness 4 No. of threads per inch 10

Pitch of tubes 92×92 Working pressure by Rules 21 kg/cm^2 Manhole compensation: Size of opening in shell plate 400×300 Section of compensating ring 190×25 No. of rivets and diameter of rivet holes $42 : 31.5 \text{ mm}$

Outer row rivet pitch at ends 210 mm Depth of flange if manhole flanged 85 mm Steam Dome: Material

Tensile strength Thickness of shell Description of longitudinal joint

Diameter of rivet holes Pitch of rivets Percentage of strength of joint $\begin{cases} \text{Plate} \\ \text{Rivets} \end{cases}$

Internal diameter Working pressure by Rules Thickness of crown No. and diameter of stays

Inner radius of crown Working pressure by Rules

How connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell

Type of Superheater Manufacturers of $\begin{cases} \text{Tubes} \\ \text{Steel castings} \end{cases}$

Number of elements Material of tubes Internal diameter and thickness of tubes

Material of headers Tensile strength Thickness Can the superheater be shut off and 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 as per Rules

Pressure to which the safety valves are adjusted Hydraulic test pressure: tubes, castings and after assembly in place Are drain cocks or valves fitted to free the superheater from water where necessary

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

The foregoing is a correct description,
P. N. ODERO, E. ALESS. & C.

Manufacturer.

Dates of Survey $\begin{cases} \text{During progress of work in shops} & 2/7, 2/7/25, 11/7, 17/7, 20/7, 5/8, 20/8, 18/9, 19/9, 24/9, 30/9, 20/10, 24/10, 10/10, 3/11, 24/11, 26/11, 19/12 \\ \text{During erection on board vessel} & 16/2/25, 2/12, 28/2, 3/12, 15/12, 19/1, 23/1, 25/1 \end{cases}$ Are the approved plans of boiler and superheater forwarded herewith ☒ No. $13/4/25$ (If not state date of approval.) (Plan retained for 45 days)

Total No. of visits 27

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The Boilers of this vessel have been built under special survey, & the materials & workmanship are good. After fitting in place on board, they were examined under working conditions, & found satisfactory.

These boilers are now in a good & efficient condition, & eligible in our opinion to enable the vessel to a fresh record of N.B. 1.26. marked in the Society's Register Book.

Survey Fee £17 3700

Travelling Expenses (if any) £17 : 135.

When applied for,

11/12/1926

When received,

192

C. Roman Stuart & J.R. Morrison

Engineer Surveyors to Lloyd's Register of Shipping.

Committee's Minute

TUES. 2 MAR 1926

FRI. 26 MAR 1926

TUES. 9 AUG 1927

Assigned

See Gen. Rpt. 9294

TUES. 13 APR 1926

FRI. 14 OCT 1927

TUES. 26 OCT 1926

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