

## REPORT ON BOILERS.

No. 50693

9 6 13

Received at London Office

[ 3 SEP 1930 ]

Date of writing Report

19

When handed in at Local Office

1 9

10 30

Part of

Glasgow

No. in Reg. Book

Survey held at

8/11/30 on the

Glasgow

S. S. Penry

Date, First Survey

24 11 30

Last Survey

22<sup>nd</sup> Aug

1930

(Number of Visits 25)

Gross 2179  
Tons Net 1281

Master

Built at Gled Kilpatrick

By whom built

Dunn &amp; Dapin &amp; Miller

Yard No.

276

When built 1930

Engines made at

Glasgow

By whom made

McKie &amp; Baxter Ltd.

Engine No.

1263

When made 1930

Boilers made at

Glasgow

By whom made

Burdley Park &amp; Co Ltd

Boiler No.

11023

When made 1930

Nominal Horse Power

2141

Owners

Compagnie Maritime d'Armement &amp; de Navigation

Port belonging to Santos

See also Report No. 50641

## MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

(Letter for Record S)

Total Heating Surface of Boilers

3630 sq

Is forced draught fitted

Yes

Coal or Oil fired

Coal

No. and Description of Boilers

Two single ended vertical tubes

Working Pressure 180 lb

Tested by hydraulic pressure to

Date of test

No. of Certificate 18464

Can each boiler be worked separately

Yes

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Two Spring loaded

Area of each set of valves per boiler

per Rule

11-60 sq

Pressure to which they are adjusted

180 lb

Are they fitted with easing gear

Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

Well clear

Is oil fuel carried in the double bottom under boilers

Yes

Smallest distance between shell of boiler and tank top plating

Yes

Is the bottom of the boiler insulated

Yes

Largest internal dia. of boilers

Length

Shell plates: Material

Tensile strength

Thickness

Are the shell plates welded or flanged

Description of riveting: circ. seams

inter.

long. seams

Diameter of rivet holes in

circ. seams

long. seams

Pitch of rivets

Percentage of strength of circ. end seams

plate

rivets

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joints

plate

rivets

combined

Working pressure of shell by Rules

Thickness of butt straps

outer

inner

## No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Length of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

Dimensions of stiffening rings on furnace or c.e. bottom

Working pressure of furnace by Rules

End plates in steam space: Material

Tensile strength

Thickness

Pitch of stays

How are stays secured

Working pressure by Rules

Tube plates: Material

front

back

Tensile strength

Thickness

Mean pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

front

back

Girders to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

at centre

Length as per Rule

Distance apart

No. and pitch of stays

in each

Working pressure by Rules

Combustion chamber plates: Material

Tensile strength

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

Working pressure by Rules

Front plate at bottom: Material

Tensile strength

Thickness

Lower back plate: Material

Tensile strength

Thickness

Pitch of stays at wide water space

Are stays fitted with nuts or riveted over

Working Pressure

Main stays: Material

Tensile strength

Diameter

At body of stay,

Over threads

No. of threads per inch

Area supported by each stay

Working pressure by Rules

Screw stays: Material

Tensile strength

Diameter

At turned off part,

Over threads

No. of threads per inch

Area supported by each stay



Working pressure by Rules Are the stays drilled at the outer ends Margin stays: Diameter { At turned off part, or Over threads  
No. of threads per inch Area supported by each stay Working pressure by Rules  
Tubes: Material External diameter { Plain Stay Thickness { No. of threads per inch  
Pitch of tubes Working pressure by Rules Manhole compensation: Size of opening in  
shell plate Section of compensating ring No. of rivets and diameter of rivet holes  
Outer row rivet pitch at ends Depth of flange if manhole flanged 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 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 { 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 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 22 inclusive for boilers been complied with

The foregoing is a correct description,

Manufacturer.

Dates of Survey { During progress of work in shops - - See accompanying Are the approved plans of boiler and superheater forwarded herewith  
while building { During erection on board vessel - - Machinery report (If not state date of approval.)  
Total No. of visits 25

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

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

These Boilers have been placed on board and efficiently secured in position. They have been examined under steam and found in order.

Survey Fee ... £ : ✓ : When applied for, 19  
Travelling Expenses (if any) £ : ✓ : When received, 19

Committee's Minute GLASGOW 2-SEP-1930

Assigned See accompanying machinery report

Engineer Surveyor to Lloyd's Register of Shipping.

TUE 23 SEP 1930  
FRI 3 OCT 1930

FRI. 12 DEC 1930

Lloyd's Register  
Foundation