

REPORT ON BOILERS.

No. 8488

Received at London Office

19 JUN 1934

Date of writing Report 1st June 1934 When handed in at Local Office 6th June 1934 Port of BilbaoNo. in Survey held at
Reg. Book

Santander

Date, First Survey April 1933 Last Survey 16th May 1934

22915 on the Steel Ship Co. "CAMPRODON"

(Number of Visits 13)

Gross
Tons
Net

Built at Santander

By whom built

Corcho Hijos S.A.

Yard No. 34

When built 1934

Engines made at

Vigo

By whom made

Hijos de J. Banerres S.A.

Engine No. 115/116

When made 1933

Boilers made at

Santander

By whom made

Corcho Hijos S.A.

Boiler No.

When made 1933

Owners Cia. Arrendataria del Monopolio de Petroleos S.A. Port belonging to

Barcelona

MAIN
VERTICAL ~~DONKEY~~ BOILERS.

Made at Santander By whom made Corcho Hijos S.A. Boiler No. ✓ When made 1933 Where fixed engine room

Manufacturers of Steel Steel Co. of Scotland Ltd. & Cia. Siderurgica del Medio de Sagunto.

Total Heating Surface of Boiler 850 sq. ft. ✓

Is forced draught fitted

Yes

Coal or Oil fired Oil

No. and Description of Boilers

Two vertical multitubular drybacked type

Working pressure 125 lbs ✓

Tested by hydraulic pressure to 237.5 lbs. ✓

Date of test 19th October 1933

No. of Certificate 126.

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

2 @ 2 1/2" direct spring loaded.

Area of each set of valves per boiler

per rule 9.2 sq. in.
as fitted 11.88 "

Pressure to which they are adjusted

125 lbs

Are they fitted with easing gear

Yes

State whether steam from main boilers can enter the donkey boiler

Smallest distance between boiler or uptake and bunkers

Is oil fuel carried in the double bottom under boiler

No

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated

Largest internal dia. of boiler

7' 10 1/2"

Height 18' 9"

Shell plates: Material

S.M. steel

Tensile strength

28/32 tons

Thickness

2 1/32"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end Direct

long. seams

Double lap.

Dia. of rivet holes in

circ. seams 1 1/4"

Pitch of rivets

3 3/4"

Percentage of strength of circ. seams

plate 66.7

rivets 69.8

of Longitudinal joint

plate 67.4

rivets 64.5

combined

Working pressure of shell by rules

125 lbs

Thickness of butt straps

outer

inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Dished partial spher. Material S.M. steel

Tensile strength

26/30 tons

Thickness

7/8"

Radius

7' 0"

Working pressure by rules

125.3 lbs

Description of Furnace: Plain, spherical, or dished crown

(2) Spherical

Material

S.M. steel

Tensile strength

26/30 tons

Thickness

Crown 3/4"

External diameter

top

bottom

Length as per rule

Working pressure by rules

Pitch of support stays circumferentially

and vertically

Are stays fitted with nuts or riveted over

Diameter of stays over thread

Radius of spherical or dished furnace crown

3' 3"

Working pressure by rule

162 lbs

Thickness of Ogee Ring

1 1/2"

Diameter as per rule

D 94.6875"

Working pressure by rule

126.7 lbs

Combustion Chamber: Material

Tensile strength

Thickness of top plate

Radius if dished

Working pressure by rule

Thickness of back plate

Diameter if circular

Length as per rule

Pitch of stays

Are stays fitted with nuts or riveted over

Diameter of stays over thread

Working pressure of back plate by rules

Tube Plates: Material

front S.M. steel

Tensile strength

26/30 tons

Thickness

1 1/4"

Mean pitch of stay tubes in nests

{ 11 1/4" horiz.
12 3/4" vert.

If comprising shell, Dia. as per rule

front 87 1/2"

back 87 1/2"

Pitch in outer vertical rows

4 1/2"

Dia. of tube holes FRONT

stay 2 1/4"

plain 2 3/4"

BACK

stay 2 1/2"

plain 2 1/2"

Is each alternate tube in outer vertical rows a stay tube

Yes

Working pressure by rules

front 125 lbs

back 126.5 lbs

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 rule

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Lloyd's Register
Foundation

010440-010450-0053

Crown stays: Material Weldless steel tubes, A.R. right Tensile strength 42,000 lbs. Diameter 2 1/2" at body of stay, or over threads 2 1/2"

No. of threads per inch 12 Area supported by each stay 200 sq. in. Working pressure by rules 230 lbs.

Screw stays: Material 21 Tensile strength 42,000 lbs. Diameter 2 1/2" at turned off part, or over threads 2 1/2" No. of threads per inch 12

Area supported by each stay 200 sq. in. Working pressure by rules 230 lbs. Are the stays drilled at the outer ends Yes

Tubes: Material Weldless steel tubes, A.R. right External diameter 2 1/2" Thickness 9 S.W.G.

No. of threads per inch 12 Pitch of tubes 1 1/4" x 3 1/2" Working pressure by rules 230 lbs.

Manhole Compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 12 x 2 1/2" No. of rivets and diameter 12

of rivet holes 34 in 1 1/4" holes Outer row rivet pitch at ends 4 7/8" Depth of flange if manhole flanged Yes

Uptake: External diameter 2 1/2" Thickness of uptake plate 1/2"

Cross Tubes: No. 2 External diameters 2 1/2" Thickness of plates 1/2"

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes

The foregoing is a correct description.

W. H. H. & Co. Manufacturer.

Dates of Survey while building During progress of work in shops - 1933: Apr. 4, 21, May 12, June 2, Aug. 4, 5 Is the approved plan of boiler forwarded herewith 22/10/32. (If not state date of approval.)

During erection on board vessel - 1933: Dec. 21 Total No. of visits 13.

1934: Jan. 19, Mar. 23, Apr. 4, May 15, 16.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been constructed under survey, of tested materials, and in accordance with the approved plans and Secretary's letters. The workmanship is good and the boilers have been tested by hydraulic pressure and found tight and sound. These boilers have now been satisfactorily fitted in the above vessel, examined under steam and their safety valves adjusted to 125 lbs. and are eligible in my opinion to be classed with the notation Boiler Pressure 125 lbs.

Survey Fee £ 19 When applied for, 19

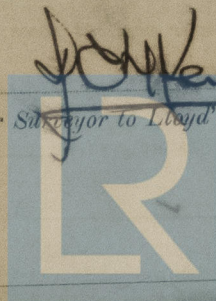
Travelling Expenses (if any) £ 19 When received, 19

Committee's Minute
Assigned

FRI. 6 JUL 1934

FRI. 17 AUG 1934

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register
Foundation

Rpt. 13.

RE

Date of work

No. in Reg. Book

22915

Built at

Owners

Electric

Is the Vessel

System of

Pressure of

Direct or

If alternative

Has the Auxiliary

Generator

are they over

Where more

series with each

Are all terminals

short circuited

Position of

is the ventilation

if situated

are their axes

Earthing, and

their respective

Main Switch

a fuse on each

Switchboard

are they protected

woodwork or other

are they constructed

permanently hinged

with mica or other

and is the frame

bars

Main Switch

each

on each

Instruments

Earth Testing

Switches, Circuit

Joint Boxes