

REPORT ON BOILERS.

No. 19152.

Received at London Office.

2 AUG 1945

Date of writing Report 2nd April 1945 When handed in at London Office 1945 Port of BUENOS AIRES.

No. in Survey held at BUENOS AIRES. Date, First Survey 9-10-44. Last Survey 22nd March 1945.

Reg. Book. 6416. on the Steel Screw Trawler S.S. "C O R V I N A". (Number of Visits 12) Tons Gross 261 Net 109.

Built at Hamburg, By whom built H. Brandenburg, Yard No. -- When built 1906.

Engines made at Hamburg, By whom made H. Brandeburg, Engine No. -- When made 1906.

Boilers made at Hamburg, By whom made H. Brandeburg, Boiler No. -- When made 1906.

Indicated Horse Power -- Owners JOSE MARIA CASTAGNINO. Port belonging to Buenos Aires.

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~

Manufacturers of Steel Not ascertainable. (Letter for Record (S).)

Total Heating Surface of Boilers 1417.5 sq.ft. Is forced draught fitted Yes. Coal or Oil fired Oil fired. 12.65 Kg. Cm².

No. and Description of Boilers 1 S.B. (One multitubular Scotch Boiler) Working Pressure 180 lbs/sq.in.

Tested by hydraulic pressure to 270 lbs. Date of test 21/12/45. No. of Certificate -- Can each boiler be worked separately --

Area of Firegrate in each boiler Oil fired. No. and Description of Safety valves to each boiler 2-spring loaded. - 2 1/2" dia

Area of each set of valves per boiler { per Rule -- 9.05 Pressure to which they are adjusted 180 lbs. Are they fitted with easing gear Yes.
as fitted 4.91 sq.in. each

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

Smallest distance between boilers or uptakes and bunkers or ~~work~~ P 10"; S 21". Is oil fuel carried in the double bottom under boilers No.

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

Largest internal diameter of boilers 3300 M.M. Length 3080 M.M. Shell plates: Material Steel. Tensile strength --

Thickness 28 M.M. Are the shell plates welded or flanged No. Description of riveting: circ. seams { end D.R.ZIG ZAG.
inter --

Double butt strap. Diameter of rivet holes in { circ. seams 35 M.M. Pitch of rivets { 94 M.M.
Lozenge type. { long. seams 35 M.M. { 350 M.M.

Percentage of strength of circ. end seams { plate -- Percentage of strength of circ. intermediate seam { plate --
rivets -- rivets --

Percentage of strength of longitudinal joint { plate --
rivets -- combined --

Thickness of butt straps { outer 30.2 M.M. No. and Description of Furnaces in each Boiler 2-Corrugated (Morison Type).
inner 22.2 M.M.

Material Steel. Tensile strength -- Smallest outside diameter 1050 M.M.

Length of plain part { top 250 M.M. Thickness of plates { crown 13 M.M. Description of longitudinal joint Makers fire weld.
bottom 770 M.M. { bottom 13 M.M.

Dimensions of stiffening rings on furnace or c.c. bottom Furnace-2 stiffening rings each furnace 3" x 1" E.W.
C.C. bottom- 90 x 90 x 11 m.m. angles double.

End plates in steam space: Material Steel. Tensile strength -- Thickness 25 M.M. Pitch of stays 350 x 370.

How are stays secured Screwed nutted both sides, riveted washer externally.

End plates: Material { front Steel. Tensile strength { -- Thickness { 25 m.m.
back Steel. { -- { 21 m.m.

Clearance pitch of stay tubes in nests 220 M.M. Pitch across wide water spaces 375 M.M.

Ends to combustion chamber tops: Material Steel. Tensile strength -- Depth and Thickness of girder

Centre 164 x 17 M.M. Length as per Rule -- Distance apart 160-190 M.M. No. and pitch of stays

Each 2 at 200 M.M. Combustion chamber plates: Material Steel.

Tensile strength -- Thickness: Sides 18 M.M. Back 18 M.M. Top 18 M.M. Bottom 18 M.M.

Pitch of stays to ditto: Sides 200 M.M. Back 200 M.M. Top 160-190 x 200 Are stays fitted with nuts or rivets Back, between
headers and side marginal stays - Yes, Remainder riveted heads.

End plate at bottom: Material Steel. Tensile strength --

Thickness 25 M.M. Lower back plate: Material Steel. Tensile strength -- Thickness 22 M.M.

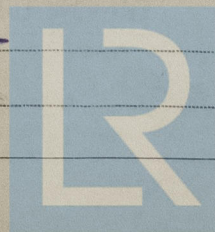
Pitch of stays at wide water space 600 M.M. (51 M.M. Dia.) Are stays fitted with nuts or riveted over Nuts and washers.

End stays: Material Steel. Tensile strength --

End stay { At body of stay, 63 M.M. No. of threads per inch 8.
{ Over threads

End stays: Material Steel. Tensile strength --

End stay { At turned off part, 38 M.M. No. of threads per inch 10.
{ Over threads



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Are the stays drilled at the outer ends Yes. Margin stays: Diameter { At turned off part, 45 M.M. 42
Over threads
No. of threads per inch 8.
Tubes: Material Steel. External diameter { Plain 89 M.M. ✓
Stay 89 M.M. ✓ Thickness { 3 M.M. ✓
9.5 m/m. ✓ No. of threads per inch 10.
Pitch of tubes 110 M.M. Plain, 220 M.M. stay tubes. Manhole compensation: Size of opening in
shell plate 412.8 x 387.4 ✓ Section of compensating ring 127 x 25 m/m. ✓ No. of rivets and diameter of rivet holes D.R. Pitch 133 M.M.
Outer row rivet pitch at ends -- Depth of flange if manhole flanged 39 M.M. Steam Dome: Material Steel.
Tensile strength -- Thickness of shell 12.5 M.M. ✓ Description of longitudinal joint Makers fire weld.
Diameter of rivet holes D.R. (reeled.) ✓ Pitch of rivets 82.5 M.M. ✓ Percentage of strength of joint { Plates --
Rivets --
Internal diameter 790 M.M. Thickness of crown 22 M.M. ✓ No. and diameter of
stays Opening in crown 300 x 400. ✓ Inner radius of crown See plan.
How connected to shell Flanged 52 M.M. ✓ Size of doubling plate under dome 127 x 25 M.M. Diameter of rivet holes and pitch
of rivets in outer row in dome connection to shell 25 x 82.5. ✓

Type of Superheater -- Manufacturers of { Tubes --
Steel forgings --
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 --
Pressure to which the safety valves are adjusted -- Hydraulic test pressure:
tubes -- forgings and 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 Yes.

The foregoing is a correct description,
Manufacturer.

Dates of Survey { During progress of work in shops --
while building { During erection on board vessel --
See Secretary letter "S" 4-1-45.
Are the approved plans of boiler and superheater forwarded herewith
(If not state date of approval)
Total No. of visits

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.) This boiler is securely fitted in the
vessel and the material and workmanship are good. Upon completion of repairs (approximately 140 screw
stays renewed, 2 compensation rings fitted to each furnace, etc.) the boiler was satisfactorily
tested to a hydrostatic pressure of 270 lbs./square inch with all lagging removed from shell and end
plates, afterwards examined under steam and its safety valves adjusted as above.
The boiler is fitted for burning oil fuel with forced draft and uptake air heaters.

Survey Fee ... : 375.00
Travelling Expenses (if any) : 10.00
When applied for, 7-4-1945.
When received, 7-4-1945.

Wm. Rennie
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 12 OCT 1945

Assigned See F.E. Mackay. rpt.