

REPORT ON BOILERS.

No. 15293

Date of writing Report 3rd May 1951 When handed in at Local Office 10th May 1951 Port of Belfast Received at London Office 29 NOV 1951

No. in Reg. Book 556 Survey held at Belfast Date, First Survey visits included in apt 4 & 5 Last Survey 19

on the Irvin L. M.V. Juan Peron (Number of Visits 1) Tons Gross 26140.93
Belfast Built at Belfast By whom built Harland & Wolff Ltd. Yard No. 1384 When built 10/51
 Engines made at Belfast By whom made Harland & Wolff Ltd. Engine No. 1384 When made 10/51
 Boilers made at Belfast By whom made Harland & Wolff Ltd. Boiler No. 1384 When made 10/51
 Nominal Horse Power 2000 Owners COMPANIA ARGENTINA DE PESCA. S.A. Port belonging to BUENOS AIRES

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Coleman Is forced draught fitted Yes Letter for Record Yes

Total Heating Surface of Boilers 20406 sq ft Coal or Oil fired Oil

No. and Description of Boilers 6 Cylindrical Multitubular Working Pressure 200 lbs

Tested by hydraulic pressure to 350 lbs Date of test 17.2.50 No. of Certificate 1441

Area of Firegrate in each Boiler 9.88 sq ft Can each boiler be worked separately Yes

Area of each set of valves per boiler as fitted 11.86 sq ft Pressure to which they are adjusted 200 lbs 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 Yes

Smallest distance between shell of boiler and tank top plating Boiler Flat Is oil fuel carried in the double bottom under boilers Boilers fitted on deck

Largest internal dia. of boilers 16' - 3" Length 12' - 0" Is the bottom of the boiler insulated Yes

Thickness 1 29/64" Are the shell plates welded or flanged No Shell plates: Material Steel Tensile strength 29-33 tons

Long. seams T.R.D.B.S. Diameter of rivet holes in circ. seams 19/16" Description of riveting: circ. seams end D.R.L. inter 3.956"

Percentage of strength of circ. end seams plate 60.5 rivets 52.7 Percentage of strength of circ. intermediate seam plate 84.6 rivets 96.7

Percentage of strength of longitudinal joint plate 84.6 rivets 96.7 combined 88.5 Working pressure of shell by Rules 203.6 lbs

Thickness of butt straps outer 1 1/8" inner 1 1/4" No. and Description of Furnaces in each Boiler 3 Deighton

Material Steel Tensile strength 26-30 tons Smallest outside diameter 3' - 11 5/16"

Length of plain part top 21 1/32" bottom 21 1/32" Thickness of plates crown 21 1/32" bottom 21 1/32" Description of longitudinal joint Weld (J.P.K.)

Dimensions of stiffening rings on furnace or c.c. bottom Yes Working pressure of furnace by Rules 203 lbs

End plates in steam space: Material Steel Tensile strength 26-30 tons Thickness 1 7/32" Pitch of stays 19" x 16 1/2"

How are stays secured D.N.W. Working pressure by Rules 208 lbs

End plates: Material Steel Tensile strength 26-30 tons Thickness 13/16"

Pitch of stay tubes in nests 9.68" Pitch across wide water spaces 14 1/2" Working pressure front 215 lbs back 205 lbs

Ends to combustion chamber tops: Material Steel Tensile strength 28-32 tons Depth and thickness of girder front 215 lbs back 205 lbs

Centre 12" x 1 3/16" Length as per Rule 39" Distance apart 9 1/4" No. and pitch of stays front 215 lbs back 205 lbs

Each Welded Working pressure by Rules As approved Combustion chamber plates: Material Steel Tensile strength 26-30 tons Thickness 29/32"

Side strength 26-30 tons Thickness: Sides 13/16" Back 23/32" Top 13/16" Bottom 13/16"

Pitch of stays to ditto: Sides 10 x 10 x 9 3/4" Back 10" x 8 1/4" Top Welded Are stays fitted with nuts or riveted over others welded

Working pressure by Rules As approved Front plate at bottom: Material Steel Tensile strength 26-30 tons Thickness 29/32"

Thickness 29/32" Lower back plate: Material Steel Tensile strength 26-30 tons Thickness 29/32"

Pitch of stays at wide water space 14 1/2" Are stays fitted with nuts or riveted over Welded

Working pressure As approved Main stays: Material Steel Tensile strength 28-32 tons

At body of stay 3 1/4" No. of threads per inch 6 Area supported by each stay 333 sq inches

Over threads 3 1/4" Screw stays: Material Steel Tensile strength 26-30 tons

Working pressure by Rules As approved No. of threads per inch 9 (through shell only) Area supported by each stay 10 x 8 1/4" x 10 x 10"

At turned off part 1 5/8" 1 1/8" x 2

Over threads 1 5/8"

Working pressure by Rules As approved Are the stays drilled at the outer ends ☒ Margin stays: Diameter { At turned off part, 1 7/8" or Over threads. As approved.
No. of threads per inch Welded Area supported by each stay 12 1/4" x 8 1/4" Working pressure by Rules As approved.
Tubes: Material Seamless steel External diameter { Plain 2 1/2" Stay 2 1/2" Thickness { 9 L.S.G. 3/16" x 3/8" x 7/16" No. of threads per inch 9.
Pitch of tubes 3 3/4" x 3 3/8" Working pressure by Rules As approved Manhole compensation: Size of opening in Dat
shell plate 16 1/2" x 12 1/2" Section of compensating ring 3'-0" x 2'-8" x 1 1/4" No. of rivets and diameter of rivet holes 28 and 1 9/16"
Outer row rivet pitch at ends 10" Depth of flange if manhole flanged 3 3/8" 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 ph
of rivets in outer row in dome connection to shell
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 a
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
Rules Pressure to which the safety valves are adjusted Hydraulic test press
tubes forgings and castings and after assembly in place Are drain cocks
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,
FOR HARLAND AND WOLFEY LIMITED
John W. Wolfey 14
18.

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

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
These boilers have been constructed under special order in accordance with the Rules and approved plans. The materials and workmanship are good. The boilers have been efficiently installed on board the vessel, all safety valves adjusted under steam accumulation test satisfactorily completed.

Survey Fee ... £195: - : - } When applied for, 27.11.19.51
Travelling Expenses (if any) £ : : } When received 19.11.19.51

John W. Wolfey
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute FRI. 21 DEC 1951

Assigned See F.E. Mchey rpt



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Foundation