

REPORT ON BOILERS.

AIR RESERVOIR

No. 10,198

Received at London Office 4 JUL 1929

Date of writing Report 19 When handed in at Local Office 3rd July 1929 Port of Belfast

No. in Reg. Book Survey held at Date, First Survey 28th May Last Survey 27th June 1929

on the CARMEN AYELLANEDA (Number of Visits 3) Gross 2234 Tons Net 1344

Built at Glasgow By whom built A & J Inglis Ltd Yard No. 866 When built 1929

Engines made at Do By whom made Harland & Wolff Ltd Engine No. 866 When made 1929

Boilers made at None By whom made Boiler No. When made

Owners Entre Rios Railway Co Ltd Port belonging to Ibiary

VERTICAL DONKEY BOILER. AIR RESERVOIR.

Made at Belfast By whom made Harland & Wolff Ltd Boiler No. 866F When made 1929 Where fixed

Manufacturers of Steel David Colville & Sons Ltd.

Total Heating Surface of Boiler Capacity 350 sq ft Is forced draught fitted Coal or Oil fired

No. and Description of Boilers One dome-ended, cylindrical Working pressure 356 lb sq in

Tested by hydraulic pressure to 585 lb. Date of test 27th June 1929. No. of Certificate 80

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler

Area of each set of valves per boiler { per rule as fitted Pressure to which they are adjusted Are they fitted with easing gear

State whether steam from main boilers can enter the donkey boiler Smallest distance between boiler or uptake and bunkers

or woodwork Is oil fuel carried in the double bottom under boiler Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated Largest internal dia. of boiler 70 5/16" HEIGHT 14'3" Height

Shell plates: Material Steel Tensile strength 28/32 Tons Thickness 1"

Are the shell plates welded or flanged No. Description of riveting: circ. seams { end double inter. long. seams kettle d.t.s.

Dia. of rivet holes in { circ. seams 1 7/16" long. seams 1 7/8" Pitch of rivets { 3.29" 7 3/16" Percentage of strength of circ. seams { plate 60.1 rivets 67.5 of Longitudinal joint { plate 85.4 rivets 93.7 combined 89.6

Working pressure of shell by rules 371 lb. Thickness of butt straps { outer 25/32 inner 29/32

ENDS Shell Crown: Whether complete hemisphere, dished partial spherical, or flat dished partial spherical Material Steel

Tensile strength 26/30 Tons Thickness 1 5/32 + 1 9/32 Radius 48" Working pressure by rules 360 lb

Description of Furnace: Plain, spherical, or dished crown Material Tensile strength

Thickness 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 Working pressure by rule

Thickness of Ogee Ring Diameter as per rule { D d Working pressure by rule

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 back Tensile strength Thickness Mean pitch of stay tubes in nests

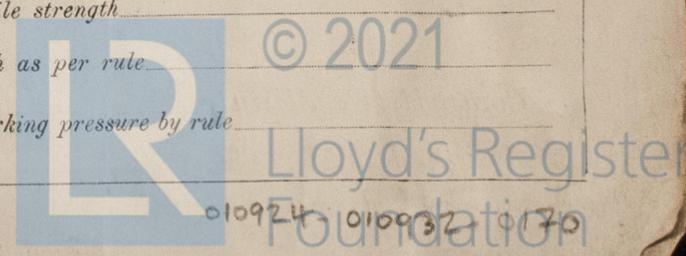
If comprising shell, Dia. as per rule { front back Pitch in outer vertical rows { Dia. of tube holes FRONT { stay plain BACK { stay plain

Is each alternate tube in outer vertical rows a stay tube Working pressure by rules { 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 rule



Crown stays: Material _____ Tensile strength _____ Diameter { at body of stay, _____ or 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, _____ or over threads _____ } No. of threads per inch _____
 Area supported by each stay _____ Working pressure by rules _____ Are the stays drilled at the outer ends _____
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 ^{END} shell plate 16" x 12" Section of compensating ring No. of rivets and diameter of rivet holes Outer row rivet pitch at ends Depth of flange if manhole flanged 4"

Uptake: External diameter _____ Thickness of uptake plate _____
Cross Tubes: No. _____ External diameters { _____ } Thickness of plates _____

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

The foregoing is a correct description,
 FOR HARLAND AND WOLFF, LIMITED.
Feckbeek Manufacturer.

Dates of Survey { During progress of work in shops - - } May 25 ¹⁹²⁷ June 20, 27 Is the approved plan of boiler forwarded herewith (If not state date of approval.) _____
 { During erection on board vessel - - } _____ Total No. of visits 3

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
This air receiver has been constructed under special survey. The materials and workmanship are sound and good. It has been satisfactorily tested by working pressure. It is intended for a vessel building on the Clyde.

Survey Fee £ 4 : 4 : _____ } When applied for, 3rd July 1927
 Travelling Expenses (if any) £ : : _____ } When received, 16/8/ 1927

R. Lee Amess.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute _____
 Assigned _____

