

GLASGOW REPORT NO. 47675
AIR RESERVOIRS.
No. 9850
REPORT ON BOILERS.

Received at London Office

14 MAR 1928

Date of writing Report

19

When handed in at Local Office

19 Oct. 1927 Port of

Belfast.

No. in Survey held at
Reg. Book

Date, First Survey

2 Aug

Last Survey

17 Oct 1927

(Number of Visits

Gross
Tons
Net

on the

M. V. "PONZANO"

Built at Glasgow

By whom built

Messrs Harland & Wolff Ltd

Yard No. 745

When built 1928-3

Engines made at

do

By whom made

do

Engine No. 745

When made 1928-3

Boilers made at

✓

By whom made

✓

Boiler No.

When made

Owners Messrs MacAndrews & Co Ltd

Port belonging to

Liverpool

AIR RESERVOIR

VERTICAL DONKEY BOILER

Made at Belfast

By whom made

Harland & Wolff Ltd

Boiler No. 745 G

When made 1927

Where fixed

Manufacturers of Steel

Ed. Colville & Sons Ltd

Total Heating Surface of Boiler

Capacity 610 ft²

Is forced draught fitted

Coal or Oil fired

No. and Description of Boilers

One dome-ended cylindrical hull

Working pressure 356 lb/sq in

Tested by hydraulic pressure to

584 lb/sq in

Date of test

17th October 1927

Lloyd's No. of Certificate

58

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

76 3/16"

Length

21'-9"

Shell plates: Material

Steel

Tensile strength

28-32 tons

Thickness

1 3/32"

Are the shell plates welded or flanged

No.

Description of riveting: circ. seams

end SR
inter. SR

long. seams

J.R., S.B.S.

Dia. of rivet holes in

circ. seams 1 5/16"
long. seams 1 3/16"

Pitch of rivets

3-36"
8"

Percentage of strength of circ. seams

plate 60.9
rivets 60.4

of Longitudinal joint

plate 85.1
rivets 97.4
combined 89.7

Working pressure of shell by rules

378 lb.

Thickness of butt straps

outer 27/32"

inner 21/32"

Shell Crown:

Whether complete hemisphere, dished partial spherical, or flat

dished partial spherical

Material Steel

Tensile strength

26-30 tons

Thickness

1 7/32" 1 1/32"

Radius

51"

Working pressure by rules

358 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
a

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

W467-0015

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Foundation

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.**
Teetbeck Manufacturer.

Dates of Survey { During progress of work in shops - 1927 Aug 2-23. Sept 1, Oct 5-17 = 5 Is the approved plan of boiler forwarded herewith (If not state date of approval.)
 while building { During erection on board vessel - _____ Total No. of visits _____

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

This Air Reservoir has been constructed under special survey. The materials and workmanship are sound and good. It has been satisfactorily tested by hydraulic pressure in accordance with the rules. In my opinion the reservoir is eligible for installation on a classed vessel.

This Air Reservoir has been properly fitted in the M.V. "Ponzano". Fusible plugs are fitted to the Reservoir and 2 - 1 3/4" spring loaded safety valves in the pipe line have been adjusted to the working pressure of 350 lbs./in².

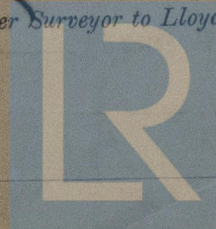
J. Doyle
 Glasgow 9/3/28

Survey Fee ... £ 4 : 4 : } When applied for, 19 Oct 1927
 Travelling Expenses (if any) £ : : } When received, 10/11/27

R. Lee Amner.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 13 MAR 1928**
 Assigned See Gen Rph. No. 47675.



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