

t. 5b.

GLASGOW REPORT No. 46775
AIR RESERVOIRS
REPORT ON BOILERS. No. 9716

Received at London Office

Date of writing Report

19

When handed in at Local Office

19

Port of Belfast

No. in Survey held at
opening in Reg. Book.

Belfast

Date, First Survey 15th February Last Survey 4th April 1927

M. V. "PAVA"

(Number of Visits 6)

Gross
Tons
Net

on the

Glasgow

By whom built

Harland & Wolff Ltd.

Yard No. 750 G.

When built 1927

Engines made at

By whom made

Engine No.

When made

Boilers made at

Belfast

By whom made

Harland & Wolff Ltd.

Boiler No. 750 G.

When made 1927

Port belonging to

~~VERTICAL~~ ~~DONKEY~~ ~~BOILER~~ Air Reservoir ✓

Made at

Belfast ✓

By whom made

Harland & Wolff Ltd. ✓

Boiler No. 750 G.

When made 1927

Where fixed

Manufacturers of Steel

Sand Colville & Sons Ltd. ✓

Capacity of each Reservoir

250 f

Is forced draught fitted

Coal or Oil fired

No. and Description of Boilers

Two Home-made Brick ✓

Working pressure

356 lbs ✓

Tested by hydraulic pressure to

712 lbs ✓

Date of test

2nd & 4th April 1927

Class's

No. of Certificate

42 ✓

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

Pressure to which they are adjusted

Are they fitted with casing gear

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

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated

Largest internal dia. of boiler

60" ✓

Height 14' 3" ✓

Shell plates: Material

Steel ✓

Tensile strength

28-32 tons ✓

Thickness

27/32" ✓

Are the shell plates welded or flanged

No. ✓

Description of riveting: circ. seams

end double ✓

long. seams Kettle d.b.s. ✓

Dia. of rivet holes in

circ. seams 1 7/16" ✓

long. seams 5/16" ✓

Pitch of rivets

2.98" ✓

6 7/16" ✓

Percentage of strength of circ. seams

plate 64.3 ✓

rivets 58.0 ✓

of Longitudinal joint

plate 87.9 ✓

rivets 94.1 ✓

combined 100 ✓

Working pressure of shell by rules

372 lbs

Thickness of butt straps

outer 21/32" ✓

inner 75/32" ✓

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

dished ✓

Material

Steel

Tensile strength

26-30 tons ✓

Thickness

7/8" & 1" ✓

Radius

36" ✓

Working pressure by rules

364 lbs

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

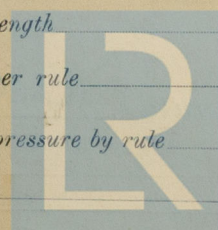
Depth and thickness of girder at centre

Length as per rule

Distance apart

No. and pitch of stays in each

Working pressure by rule



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Foundation

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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 none No. of rivets and diameter _____

of rivet holes ☒ Outer row rivet pitch at ends none Depth of flange if manhole flanged 3 1/2"

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.**

J. D. Gray Manufacturer

Dates of Survey { During progress of work in shops - - } Feb 15 March 25 April 1. 24 - 6 Is the approved plan of boiler forwarded herewith Yes.
(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.)

These Air Reservoirs have been constructed under special survey to the Society's rules and approved design. They have been satisfactorily tested by hydraulic pressure and are eligible, in my opinion for installing in a classed vessel

These Air Reservoirs have been properly secured on board: a double 1 3/4" diameter safety valve has been fitted, common to both, and adjusted to 356 lbs. per sq. in. adjusting washers P. 13.5 Oms. St. 15.5 Oms.

J. D. Gray
Glasgow 16-6-27.

Survey Fee £ 6 : 6 + } When applied for, 9 April 1927
Travelling Expenses (if any) £ : : } When received, 3/57 1927
Lon Lts.

R. Lee Ames
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 5 - JUL 1927**
Assigned *See G.L. Rpt. No. 46775* *MD*