

AIR RESERVOIRS. REPORT ON BOILERS.

No. 10,184

Received at London Office

4 JUN 1929

Date of writing Report

19

When handed in at Local Office

3rd June 1929 Port of

Belfast

No. in Survey held at
Reg. Book.

Belfast

Date, First Survey

1st May

Last Survey

28th May

19 29

(Number of Visits

5

Gross

Tons

Net

Built at

Rotterdam

By whom built

Millers Engine & Shipway Co.

Yard No.

When built

Engines made at

By whom made

Engine No.

When made

Boilers made at

By whom made

Boiler No.

When made

Owners

Port belonging to

VERTICAL DONKEY BOILER.

Air Reservoirs

Made at

Belfast

By whom made

Harland & Wolff Ltd.

No.

93672

When made

Where fixed

Manufacturers of Steel

Davis Colville & Sons Ltd.

Capacity of each Reservoir

800 cubic ft.

Is forced draught fitted

Coal or Oil fired

No. and Description of Boilers

Four same-ended cylindrical built Reservoirs

Working pressure

356 lbs

Tested by hydraulic pressure to

585 lbs

Date of test

20th 21st 24th & 28th May 1929

No. of Certificates

79

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

6' 11 5/16"

Length

Height 23' 8"

Shell plates: Material

Steel

Tensile strength

28-32 tons

Thickness

1 1/32"

Are the shell plates welded or flanged

No.

Description of riveting: circ. seams

end

double

long. seams

keels

Dia. of rivet holes in

circ. seams

1 9/16"

Pitch of rivets

3 1/4"

Percentage of strength of circ. seams

plate

59.2

of Longitudinal joint

plate

83.8

Working pressure of shell by rules

358 lbs

Thickness of butt straps

outer

29/32"

inner

1 1/32"

Shell Crown:

Whether complete hemisphere, dished partial spherical, or flat

dished partial spherical

Material

Steel

Tensile strength

26-30 tons

Thickness

1 3/16" & 1 9/16"

Radius

60"

Working pressure by rules

358 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

of comprising shell, Dia. as per rule

front

back

Pitch in outer vertical rows

Dia. of tube holes FRONT

stay

plain

BACK

stay

plain

of each alternate tube in outer vertical rows a stay tube

Working pressure by rules

front

back

Orders 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

004541-004547-0123

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 7/8" ✓

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,
F. HARLAND AND WOLFF, LIMITED,
F. Lebeck - *Manufacturer.*

Dates of Survey while building	During progress of work in shops - -	1929 May 1. 20. 21. 24 28.	Is the approved plan of boiler forwarded herewith (If not state date of approval.)
	During erection on board vessel - -		Total No. of visits 5

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

These reservoirs have been constructed under special survey and to the approved plan. They were subjected to hydraulic test with satisfactory results. The materials and workmanship are good.

Survey Fee	£ 16 : 16 : }	When applied for, 3 rd June 1929.
Travelling Expenses (if any)	£	:	:	When received, 15.6.1929.

Rice Annex

THE. 5 NOV 1929

Committee's Minute

Assigned

Engineer Surveyor to Lloyd's Register of Shipping.

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