

5b.

AIR RESERVOIRS.  
**REPORT ON BOILERS.**

51965  
No. 10,576

Received at London Office -3 MAR 1931  
2 DEC 1931

of writing Report

19

When handed in at Local Office

2<sup>nd</sup> March 1931 Port of Belfast

of open

o, in Survey held at  
Book

Date, First Survey 20<sup>th</sup> Nov. 1930 Last Survey 26<sup>th</sup> Feb. 1931

(Number of Visits 19) Gross 8376  
Tons Net 4953

on the

M. V. "CONCH"

t at

Glasgow

By whom built

Harland & Wolff Ltd

Yard No. 909 When built 1931

and diameters made at

Do.

By whom made

Do.

Engine No. 909 When made 1931

ers made at

Belfast

By whom made

Do.

Boiler No. 909 When made 1931

holes and

ers Anglo Saxon Petroleum Coy Ltd

Port belonging to London

**CRITICAL DONKEY BOILER.**

r be shut off at

Belfast

By whom made

Harland & Wolff Ltd.

Boiler No.

9099. When made 1931

Where fixed

ufacturers of Steel

Ed. Colville & Sons Ltd.

pressure

Capacity

Heating Surface of Boiler

350 cubic feet each

Is forced draught fitted

Coal or Oil fired

lic test pre

and Description of Boilers

Four cylindrical built steel

Working pressure 356 lbs/sq

ks or valves

d by hydraulic pressure to

585 lbs/sq

Date of test Two on 6<sup>th</sup> Feb. 1931. Two on 16<sup>th</sup> Feb. 1931 No. of Certificate 99

of Firegrate in each Boiler

No. and Description of safety valves to each boiler

tion,

of each set of valves per boiler

per rule  
as fitted

Pressure to which they are adjusted

Are they fitted with easing gear

Manufacture whether steam from main boilers can enter the donkey boiler

Smallest distance between boiler or uptake and bunkers

odwork

Is oil fuel carried in the double bottom under boiler

Smallest distance between base of boiler and tank top plating

with

Is the base of the boiler insulated

Largest internal dia. of boiler 5'-10<sup>5</sup>/<sub>16</sub>" Length 14'-3"

plates: Material

Steel

Tensile strength

28-32 Tons/sq

Thickness

1"

Rpt. 5

the shell plates welded or flanged

No.

Description of riveting: circ. seams

end double  
inter. long. seams

keble

ve be

of rivet holes in

circ. seams

1<sup>5</sup>/<sub>16</sub>"

Pitch of rivets

3.29"

Percentage of strength of circ. seams

plate 60.1  
rivets 67.5

of Longitudinal joint

plate 85.7  
rivets 93.7  
combined 89.6

sted

ing pressure of shell by rules

371 lbs/sq

Thickness of butt straps

outer 2<sup>5</sup>/<sub>32</sub>"  
inner 2<sup>3</sup>/<sub>32</sub>"

Crown:

Whether complete hemisphere, dished partial spherical, or flat

Yes

Material

Steel

e strength

26-30 Tons/sq

Thickness

1<sup>5</sup>/<sub>32</sub>" + 1<sup>9</sup>/<sub>32</sub>"

Radius

48"

Working pressure by rules

360 lbs/sq

ption of Furnace:

Plain, spherical, or dished crown

Material

Tensile strength

ess

External diameter

top  
bottom

Length as per rule

Working pressure by rules

of support stays circumferentially

and vertically

Are stays fitted with nuts or riveted over

ter of stays over thread

Radius of spherical or dished furnace crown

Working pressure by rule

ess of Ogee Ring

Diameter as per rule

D  
d

Working pressure by rule

stion Chamber:

Material

Tensile strength

Thickness of top plate

if dished

Working pressure by rule

Thickness of back plate

Diameter if circular

as per rule

Pitch of stays

Are stays fitted with nuts or riveted over

er of stays over thread

Working pressure of back plate by rules

plates: Material

front  
back

Tensile strength

Thickness

Mean pitch of stay tubes in nests

rising shell, Dia. as per rule

front  
back

Pitch in outer vertical rows

Dia. of tube holes FRONT

stay  
plain

BACK

stay  
plain

Register of Ship

alternate tube in outer vertical rows a stay tube

Working pressure by rules

front  
back

to combustion chamber tops: Material

Tensile strength

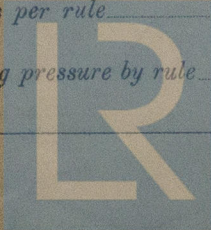
and thickness of girder at centre

Length as per rule

e apart

No. and pitch of stays in each

Working pressure by rule



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W372-0106  
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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 \_\_\_\_\_ Thickness { \_\_\_\_\_  
stay \_\_\_\_\_

No. of threads per inch \_\_\_\_\_ Pitch of tubes \_\_\_\_\_ Working pressure by rules \_\_\_\_\_

**Manhole Compensation:** Size of opening in <sup>end</sup> 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,

Manufacturer.

Dates of Survey { During progress of work in shops - - } <sup>1930</sup> Nov 20. 24. 28 Dec 2. 16. 19. 31 <sup>1931</sup> Jan 1. 7. 14. 15 Is the approved plan of boiler forwarded herewith 7.5.30  
while building { During erection on board vessel - - } 23. 29. 30 Feb 6. 9. 12. 16. 16 = 19 Total No. of visits \_\_\_\_\_  
(If not state date of approval.)

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

These Air Reservoirs were constructed under Special Survey. The materials and workmanship are sound and good. They have been tested by hydraulic pressure to 585 lbs/sq. in. They are to be despatched to Glasgow.

Survey Fee ... £ 16 : 16 : } When applied for, 2<sup>nd</sup> March 1931  
Travelling Expenses (if any) £ : : } When received, £ 50/3/31

*R. Lee Amess*

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 1-DEC 1931

Assigned

SEE ACCOMPANYING MACHINERY REPORT.

(Gls. No. 51965)



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