

# REPORT ON AIR RECEIVERS BOILERS.

No.

Received at London Office

Date of writing Report

19

When handed in at Local Office

19

Port of *Belfast*No. in Survey held at  
Reg. Book*Belfast*

Date, First Survey

Last Survey

19

on the

*BERMUDA*

(Number of Visits)

Gross  
Tons  
NetBuilt at *Belfast*By whom built *Wahman Clark & Co. Ltd.*Yard No. *490*When built *1927*Engines made at *Sunderland*By whom made *W. Daxford & Co. Ltd.*Engine No. *163*When made *1927*Boilers made at *Stockton*By whom made *Kilay Bros.*Boiler No. *5706-7*When made *1927*

Owners

Port belonging to

## AIR RECEIVERS

~~CYLINDRICAL DONKEY BOILER~~Made at *Belfast*By whom made *Wahman Clark & Co. Ltd.*Boiler No. *490*When made *1927* Where fixed *ENGINE ROOM*Manufacturers of Steel *Mm. Beardmore & Co. Ltd.*CAPACITY OF EACH RECEIVER  
Total Heating Surface of Boiler*225* *f*

In forward draught fitted

Coal or Oil fired

No. and Description of Boilers *FIVE DOME-ENDED CYLINDRICAL BUILT*Working pressure *600 LBS.*

Tested by hydraulic pressure to

*950 LBS.*

Date of test

*14<sup>th</sup> JUNE 1927*

Lloyd's No. of Certificate

*45*

17-10 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 easing 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 *13' 3"*

Shell plates: Material

*STEEL*

Tensile strength

*29 TO 33 TONS*

Thickness

*1 1/32"*

Are the shell plates welded or flanged

*No*

Description of riveting: circ. seams

end *DOUBLE*  
interlong. seams *TREBLE D.B.S.*

Dia. of rivet holes in

circ. seams *1 1/32"*  
long. seams *1 1/32"*

Pitch of rivets

*3.625"*  
*9 1/16"*

Percentage of strength of circ. seams

plate *61.2*  
rivets *50.4*

of Longitudinal joint

plate *85.3*  
rivets *85.5*  
combined *87.8*

Working pressure of shell by rules

*614 LBS.*

Thickness of butt straps

outer *1 1/32"*  
inner *1 1/32"*Shell Crown: Whether complete hemisphere, dished partial spherical, or flat *DISHED PARTIAL SPHERICAL*

Material

*STEEL*

Tensile strength

*26 TO 30 TONS*

Thickness

*1 1/32"*

Radius

*36"*

Working pressure by rules

*611 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

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

of comprising shell, Dia. as per rule

front

back

Pitch in outer vertical rows

Dia. of tube holes FRONT

stay

plain

BACK

stay

plain

Working pressure by rules

front

back

Is each alternate tube in outer vertical rows a stay tube

Girders to combustion chamber tops: Material

Tensile strength

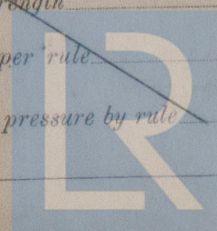
Depth and thickness of girder at centre

Length as per rule

Distance apart

No. and pitch of stays in each

Working pressure by rule



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Foundation

W606-0061

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 shell plate  $21\frac{1}{4}'' \times 17\frac{1}{4}''$  Section of compensating ring  $35\frac{5}{8}'' \times 34\frac{1}{8}'' \times 1\frac{1}{32}''$  No. of rivets and diameter \_\_\_\_\_

of rivet holes  $42 - 1\frac{1}{32}''$  Outer row rivet pitch at ends  $10''$  Depth of flange if manhole flanged  $4\frac{1}{2}''$

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,

Manufacturer.

Dates of Survey { During progress of work in shops - - } 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.)

Survey Fee ... £ 15 15 7 When applied for, 19

Travelling Expenses (if any) £ (m) When received, 19

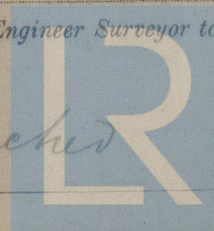
See P.B. (m) report

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute  
Assigned

TUES. 13 DEC 1927

See P.B. H. 6. rpt No 9872 attached



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