

## REPORT ON BOILERS.

No. 49089  
24 APR 1929

Received at London Office

102

When handed in at Local Office

1929

102

Port of Glasgow.

Writing Report

in Survey Book

on the

or

as made at

as made at

Horse Power

3 - Air Receivers.

TUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Heating Surface of Boilers

and Description of Boilers

Tested by hydraulic pressure to

of Firegrate in each Boiler

of each set of valves per boiler

Use of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Least distance between boilers or uptakes and bunkers or woodwork

Least distance between shell of boiler and tank top plating

Least internal dia. of boilers

Thickness of shell plates welded or flanged

Seams T.R.D.B.S.

Percentage of strength of circ. end seams

Percentage of strength of circ. intermediate seam

Percentage of strength of circ. intermediate seam

Thickness of butt straps

Material of plates

Thickness of plates

Dimensions of stiffening rings on furnace or c.e. bottom

Plates in steam space

Are stays secured

Plates: Material

Pitch of stay tubes in nests

Boilers to combustion chamber tops

Centre

Working pressure by Rules

Tensile strength

Pitch of stays to ditto

Working pressure by Rules

Main stays

Screw stays

Working pressure by Rules

At body of stay

At turned off part

At body of stay

At turned off part

At body of stay

At turned off part

At body of stay

At turned off part

At body of stay

Date, First Survey

Last Survey 16-4-1929

(Number of Visits 77)

Tons 9115

Net 5300

Built at Dalmuir

By whom built W. Beardmore &amp; Co. Ltd.

Yard No. 651 When built 1929

as made at Glasgow

By whom made Harland &amp; Wolff

Engine No. 3363 When made 1929

as made at Annan

By whom made Cochran &amp; Co. Annan Ltd.

Boiler No. 11094 When made 1929

Owners

Port belonging to

W. Beardmore &amp; Co. Ltd.

(Letter for Record)

Is forced draught fitted

Coal or Oil fired

Working Pressure 350

Date of test 8-11-28

18102

18111

18112

Can each boiler be worked separately

No. and Description of safety valves to each boiler

2. S. L.

Pressure to which they are adjusted

360

Are they fitted with easing gear

No

Is oil fuel carried in the double bottom under boilers

Is the bottom of the boiler insulated

Shell plates: Material

Tensile strength

Description of riveting

T.R.

Diameter of rivet holes in

Pitch of rivets

Percentage of strength of circ. intermediate seam

Working pressure of shell by Rules

No. and Description of Furnaces in each Boiler

Tensile strength

Smallest outside diameter

Description of longitudinal joint

Working pressure of furnace by Rules

Thickness of plates

Pitch of stays

Working pressure by Rules

Tensile strength

Thickness

Pitch of stay tubes in nests

Boilers to combustion chamber tops

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Working pressure by Rules

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Foundation



Working pressure by Rules *120* Are the stays drilled at the outer ends *Yes* Margin stays: Diameter *1 1/2"* (At turned off part, Over threads)  
 No. of threads per inch *12* Area supported by each stay *1 1/2"* Working pressure by Rules *120*  
 Tubes: Material *Steel* External diameter *1 1/2"* Thickness *1/8"* No. of threads per inch *12*  
 Pitch of tubes *4"* Working pressure by Rules *120* Manhole compensation: Size of opening *1 1/2"*  
 shell plate *1 1/2"* Section of compensating ring *1 1/2"* No. of rivets and diameter of rivet holes *1 1/2"*  
 Outer row rivet pitch at ends *4"* Depth of flange if manhole flanged *1 1/2"* Steam Dome: Material *Steel*  
 Tensile strength *120* Description of *1 1/2"*  
 Diameter of rivet holes *1 1/2"* Percentage of strength of joint *1 1/2"*  
 Internal diameter *1 1/2"* Working pressure by Rules *120* Thickness of crown *1 1/2"* No. and diameter of rivets *1 1/2"*  
 stays *1 1/2"* Inner radius of crown *1 1/2"* Working pressure by Rules *120*  
 How connected to shell *1 1/2"* Size of doubling plate under dome *1 1/2"* Diameter of rivet holes and pitch *1 1/2"*  
 of rivets in outer row in dome connection to shell *1 1/2"*

# Type of Superheater

Number of elements *1* Material of tubes *Steel* Manufacturers of *1 1/2"* Tubes *1 1/2"*  
 Material of headers *Steel* Tensile strength *120* Internal diameter and thickness of tubes *1 1/2"*  
 the boiler be worked separately *1 1/2"* Is a safety valve fitted to every part of the superheater which can be shut off from the boiler *1 1/2"*  
 Area of each safety valve *1 1/2"* Are the safety valves fitted with casing gear *1 1/2"* Working pressure as per *1 1/2"*  
 Rules *120* Pressure to which the safety valves are adjusted *120* Hydraulic test pressure: *120*  
 tubes *1 1/2"* and after assembly in place *120* Are drain cocks or valves fitted *1 1/2"*  
 to free the superheater from water where necessary *1 1/2"*

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with *120*

The foregoing is a correct description,

WILLIAM BEARDMORE & CO., LIMITED

Robert Love

Manufacturer.

Dates of Survey *19/4/29* During progress of work in shops - - *See Accompanying*  
 while building *See Accompanying* (During erection on board vessel) *See Accompanying*  
 machinery *See Accompanying* Report.

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) *120*  
 Total No. of visits *120*

# GENERAL REMARKS

(State quality of workmanship, opinions as to class, &c.) *These air receivers have been built under special survey in accordance with the approved plan, and the Society's Rules & requirements the materials and workmanship are good, they have been securely fitted on board, and their safety valves adjusted.*

Survey Fee ... £ 12 : 12 : 0 When applied for, 192  
 Travelling Expenses (if any) £ : : When received, 27.4.1929

El. Jasscaims  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 23 APR 1929

Assigned See Accompanying Machinery Report