

REPORT ON BOILERS.

No. 89348

-2 NOV 1932

Received at London Office

Form of writing Report

19

When handed in at Local Office

1/11/1932

Port of

NEWCASTLE-ON-TYNE

To, in Survey held at

Halland-on-Tyne

Date, First Survey

20 Sept

Last Survey

27 Oct 1932

Book.

on the

S.S. "Ambassador"

(Number of Visits 16.)

Gross 4450

Net 2658

ster

Built at

Stockton

By whom built

R. B. & C. Ltd.

Yard No.

When built

1925-1

gines made at

Stockton

By whom made

Blair & Co. Ltd.

Engine No.

When made

do

ilers made at

do

By whom made

do

Boiler No.

When made

do

iminal Horse Power

1878

Owners

Hall Bros & Co. Ltd.

Port belonging to

Newcastle

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY~~, OR DONKEY.

Manufacturers of Steel

Fitting of Superheaters

(Letter for Record)

Total Heating Surface of Boilers

Is forced draught fitted

Coal or Oil fired

No. and Description of Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

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

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

Smallest distance between boilers or uptakes and bunkers or woodwork

Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Largest internal dia. of boilers

Length

Shell plates: Material

Tensile strength

Thickness

Are the shell plates welded or flanged

Description of riveting: circ. seams

end
inter.

Long. seams

Diameter of rivet holes in

circ. seams
long. seams

Pitch of rivets

Percentage of strength of circ. end seams

plate
rivets

Percentage of strength of circ. intermediate seam

plate
rivets

Percentage of strength of longitudinal joint

plate
rivets
combined

Working pressure of shell by Rules

Thickness of butt straps

outer
inner

No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Length of plain part

top
bottom

Thickness of plates

crown
bottom

Description of longitudinal joint

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

Working pressure of furnace by Rules

End plates in steam space: Material

Tensile strength

Thickness

Pitch of stays

How are stays secured

Working pressure by Rules

Tube plates: Material

front
back

Tensile strength

Thickness

Mean pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

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 Rules

Combustion chamber plates: Material

Tensile strength

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

Working pressure by Rules

Front plate at bottom: Material

Tensile strength

Thickness

Lower back plate: Material

Tensile strength

Thickness

Pitch of stays at wide water space

Are stays fitted with nuts or riveted over

Working Pressure

Main 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

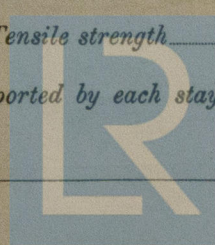
Diameter

At turned off part,
or
Over threads

No. of threads per inch

Area supported by each stay

W426-0216



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

Type of Superheater North Eastern Smeltworks Manufacturers of { Tubes Yalbot Stead & Co
Number of elements 138 Material of tubes Solid drawn Steel Steel castings Yorke & Sons Steel Co
Material of headers Woot steel Tensile strength 26 to 30 tons Internal diameter and thickness of tubes 1 1/4" x 2 1/2" thick
Can the superheater be shut off and the boiler be worked separately no Is a safety valve fitted to every part of the superheater which can be shut off from the boiler yes
Area of each safety valve 3.1116 Are the safety valves fitted with easing gear yes Working pressure as per Rules 180 lbs. Pressure to which the safety valves are adjusted 185 lbs. Hydraulic test pressure: tubes 1500 5 holes. and after assembly in place 450 lbs. Are drain cocks or valves fitted to free the superheater from water where necessary yes.
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with ✓

The foregoing is a correct description,

Manufacturer.

Dates of Survey { During progress of work in shops - - } Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
while building { During erection on board vessel - - } Total No. of visits

Is this Boiler a duplicate of a previous case If so, state Vessel's name and Report No.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
The three main boilers have now been fitted with superheaters. Materials & Workmanship good. Hydraulic tests satisfactory.

Survey Fee ... £ 15 : - : - When applied for, 1 NOV 1932

Travelling Expenses (if any) £ : ✓ : When received, 11/11 19 32

William Butler
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 11 NOV 1932

Assigned



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Foundation