

Previous Report Lon. 96428

Rpt. 5b.

# REPORT ON BOILERS.

No. 428

Received at London Office

Date of writing Report 16 18th 19 31

When handed in at Local Office 24th Aug 19 31

Port of

Sheffield

date 24/8/31

No. in Survey held at

Bradley Heath

Date, First Survey

29/10/30

Last Survey

February 19 31

Reg. Book.

02707

on the

Barge "PONAPE"

(Number of Visits)

Gross 2342

Tons

Net 1974

Built at

Genoa

By whom built

Soc. Esercizio

Boiler No.

When built 1903-2

Engines made at

✓

By whom made

✓

Engine No.

When made

✓

Boilers made at

Bradley Heath

By whom made

The Bradley Boiler Co Ltd

Boiler No. 14843

When made 1931

Owners

G. Eriksson

Port belonging to

Marischman

## VERTICAL DONKEY BOILER.

Made at

Bradley Heath

By whom made

Bradley Boiler Co Ltd

Boiler No. 14843

When made

1931

Where fixed

✓

Manufacturers of Steel

Messrs. The Cornhill Iron Co Ltd

Total Heating Surface of Boiler

82 4

Is forced draught fitted

✓

Coal or Oil fired

Oil

No. and Description of Boilers

1 Vertical Cross Tube

Working pressure

100 LBS 2"

Tested by hydraulic pressure to

200 LBS 0"

Date of test

18/2/31

No. of Certificate

532

Area of Firegrate in each Boiler

11 4

No. and Description of safety valves to each boiler

1 1/2 Double handle

Area of each set of valves per boiler

per rule 1.06  
as fitted 3.534

Pressure to which they are adjusted

See over

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

4' 3"

Height

9' 9"

Shell plates: Material

Steel

Tensile strength

26/32

Thickness

3/8"

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end. SR lap  
inter. " "

long. seams

SR lap

Dia. of rivet holes in

circ. seams 13/16  
long. seams 3/16

Pitch of rivets

2 1/2"

Percentage of strength of circ. seams

plate 59.5  
rivets 54.0

of Longitudinal joint

plate 64.6  
rivets 90.4  
combined 80

Working pressure of shell by rules

128 LBS 0"

Thickness of butt straps

outer none  
inner none

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat

dished

Material

Steel

Tensile strength

26/30

Thickness

15/32

Radius

4' 3"

Working pressure by rules

104 LBS 0"

Description of Furnace: Plain, spherical, or dished crown

dished

Material

Steel

Tensile strength

26/30

Thickness

17/32

External diameter

top 3' 6 1/2"  
bottom 3' 10 1/2"

Length as per rule

4' 2"

Working pressure by rules

114 LBS 0"

Pitch of support stays circumferentially

none

and vertically

✓

Are stays fitted with nuts or riveted over

✓

Diameter of stays over thread

✓

Radius of spherical or dished furnace crown

3' 6"

Working pressure by rule

105 LBS 0"

Thickness of Ogee Ring

none

Diameter as per rule

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

If comprising shell, Dia. as per rule

front  
back

Pitch in outer vertical rows

Dia. of tube holes FRONT

stay  
plain

BACK

stay  
plain

Is each alternate tube in outer vertical rows a stay tube

Working pressure by rules

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 rule

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Foundation

W51-0240



REPORT ON BOILERS

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  $16' \times 12'$  Section of compensating ring  $5\frac{1}{2}' \times \frac{1}{2}'$  No. of rivets and diameter \_\_\_\_\_

of rivet holes  $32 \times \frac{13}{16}$  Outer row rivet pitch at ends  $4\frac{1}{2}$  Depth of flange if manhole flanged \_\_\_\_\_

Uptake: External diameter  $12'$  Thickness of uptake plate  $\frac{1}{2}$

Cross Tubes: No.  $3$  External diameters  $8'$  Thickness of plates  $\frac{3}{8}$

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with yes

The foregoing is a correct description,  
*Bradley Baker Cold*  
*Signed & William Ree* Manufacturer.  
*Henry Duncton*

Dates of Survey { During progress of work in shops - - 25/10/30 5/11/30 12/2/31 Is the approved plan of boiler forwarded herewith yes  
 while building { During erection on board vessel - - 20/8/31 (If not state date of approval.)  
 Total No. of visits 3 + 1

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This boiler has been built under Special Survey and to the approved plan, the materials have been tested in accordance with the rules and the workmanship is good. This boiler is for shipment to Messrs. Burmeister & Wain Copenhagen and is intended for their yard No 582*

marked  $N^o 532$   
 LLOYDS TEST  
 200 LBS  
 H.P. 100  
 RWF 13/2/31

*This boiler has satisfactorily been fitted on board, examined generally and the safety valves adjusted under steam to 100 lbs. The feed pump was found to be in good working condition.*

*Survey fee £ 1:10:0 Kelsingfors 24/8/31.*  
*Olman Tylén*

Survey Fee ... £ : : When applied for, 19  
 Travelling Expenses (if any) £ : : When received, 19

Signed *R. W. Lawcett*  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 1 SEP 1930  
 Assigned + N.D.B 8.31 - 100 lbs  
*Write up without spl. Cond.*

