

REPORT ON BOILERS.

No. 17044

Received at London Office 5 AUG 1930

Date of writing Report 1-8-30 in 30 When handed in at Local Office 1-8-30 Port of Grimsby

No. in Survey held at
Reg. Book

Lincoln

Date, First Survey 11-7-30 Last Survey 31-7-30

on the

(Number of Visits 8)

Gross 12043
Tons Net 6857

Built at

By whom built

Yard No.

When built

Engines made at Jarrow-on-Tyne

By whom made Palmer & Co. Ltd.

Engine No. 1000 When made

Boilers made at Lincoln

By whom made Babcock & Wilcox, Ltd.

Boiler No. 73/4613-14 When made 1930

Owners

Port belonging to

VERTICAL DONKEY BOILER.

Made at Lincoln By whom made Babcock & Wilcox, Ltd. Boiler No. 73/4613-14 When made 1930 Where fixed

Manufacturers of Steel Parkgate 128 St. Ln. Frodingham 128 St. Ln. Booke & Turner

Total Heating Surface of Boiler 270 sq. ft.

Is forced draught fitted

Coal or Oil fired Exhaust gas

No. and Description of Boilers Two blacken Patent Water Heats

Working pressure 100 lbs.

Tested by hydraulic pressure to 200 lbs. Date of test 73/4613 - 31-7-30

No. of Certificate 297

Area of Firegrate in each Boiler none

No. and Description of safety valves to each boiler Two, spring loaded 2" dia each

Area of each set of valves per boiler { per rule 3.6 sq. ft.
as fitted 6.28 sq. ft.

Pressure to which they are adjusted 100 LBS. Are they fitted with easing gear yes

State whether steam from main boilers can enter the donkey boiler

No

Smallest distance between boiler or uptake and bunkers

or woodwork

Is oil fuel carried in the double bottom under boiler No

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated

Largest internal dia. of boiler 5'-0"

Height 9'-2 1/8"

Shell plates: Material

S. L. steel

Tensile strength 28/32 T.

Thickness 7/16"

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

Top S. R. Lap

long. seams D. K. Lap

Dia. of rivet holes in { circ. seams 13/16"
long. seams 13/16"Pitch of rivets { 1 7/8" x 2 5/8"
2.66"

Percentage of strength of circ. seams

plate 5.7 x 6.9

rivets 5.2 x 7.4

Longitudinal joint

plate 6.9 x 4

rivets 7.3

combined

Working pressure of shell by rules

134 lbs.

Thickness of butt straps { outer
inner

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

Dished

Material S. L. steel

Tensile strength 26/30 T

Thickness 9/16"

Radius 4'-6"

Working pressure by rules 122.7 lbs.

Description of Furnace: Plain, spherical, or dished crown

Dished crown

Material S. L. steel

Tensile strength 26/30 T

Thickness 13/16"

External diameter { top 15 1/8"
bottom 4'-6 1/2"

Length as per rule 4'-6 1/2"

Working pressure by rules 107 lbs.

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 Ring

2"

Diameter as per rule { D
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

BACK

stay

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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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 *S. D. steel* External diameter ☒ plain *2 3/4"* stay *6 2"* Thickness ☒ *9 KWS*
 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 ☒
Uptake: External diameter ☒ Thickness of uptake plate ☒
Cross Tubes: No. ☒ External diameters ☒ Thickness of plates ☒

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

The foregoing is a correct description,

Annual Survey Request

Babcock & Wilcox Ltd Manufacturer.
L. Jones

Dates of Survey ☒ During progress of work in shops - *1930 Jul 11, 14, 16, 18, 22, 25, 29, 31*
 while building ☒ During erection on board vessel - *-*

Is the approved plan of boiler forwarded herewith ☒ (If not state date of approval.)
 Total No. of visits *8*

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.) *These boilers have been built under special survey and in accordance with the Rules and approved plan as per Secty's letter 25/4/30. The materials and workmanship are good.*

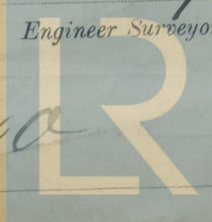
Survey Fee ... £ 8 : 8 : 0 When applied for, *1. 8. 1930*
 Travelling Expenses (if any) £ 2 : 3 : 0 When received, *as per letter 6.10.30 LRA*

W. G. Kinley
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned

TUE. 25 NOV 1930

See file JE 86440



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