

786

Rpt. 5b.

REPORT ON BOILERS.

No. 5767

Received at London Office 25 JUL 1927

Date of writing Report

19

When handed in at Local Office

19

Port of

Kobe

No. in
Reg. Book

Survey held at

Osaka Japan

Date, First Survey

3-5-27

Last Survey

14-6-1927

(Number of Visits

5

Tons

Gross 2613.47

Net 1375.43

on the

Steel single screw motor ship "CHOKO MARU"

Built at

Osaka

By whom built

Osaka Iron Works

Yard No. 1095

When built 1927

Engines made at

Kobe

By whom made

Kobe Steel Works

Engine No. 70

When made 1927

Boilers made at

Ayrman Scotland

By whom made

Messrs Cochran & Co Ltd

Boiler No. 10047

When made 1926

Owners

Osaka Shosen Kaisha

Port belonging to

Osaka

VERTICAL DONKEY BOILER.

Made at

Ayrman

By whom made

Cochran & Co Ltd

Boiler No. 10047

When made 1926

Where fixed D.B. Reclus

Manufacturers of Steel

Total Heating Surface of Boiler

600 sq ft

Is forced draught fitted

No

Coal or Oil fired

COAL

No. and Description of Boilers

ONE COCHRAN TYPE

Working pressure

100 lbs

Tested by hydraulic pressure to

Date of test

No. of Certificate

17156

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

TWIN, SPRING LOADED

Area of each set of valves per boiler

per rule 6.50"
as fitted 2 x 4.90"

Pressure to which they are adjusted

103 lbs

Are they fitted with easing gear

YES

State whether steam from main boilers can enter the donkey boiler

Smallest distance between boiler or uptake and bunkers

or woodwork

18"

Is oil fuel carried in the double bottom under boiler

YES

Smallest distance between base of boiler and tank top plating

22"

Is the base of the boiler insulated

YES, 3" CEMENT

Largest internal dia. of boiler

Height

Shell plates: Material

Tensile strength

Thickness

Are the shell plates welded or flanged

Description of riveting: circ. seams

long. seams

Dia. of rivet holes in

circ. seams

Pitch of rivets

Percentage of strength

circ. seams

plate

of Longitudinal joint

plate

rivets

combined

Working pressure of shell by rules

Thickness of butt straps

outer

inner

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

Material

Tensile strength

Thickness

Radius

Working pressure by rules

Description of Furnace: Plain, spherical, or dished crown

Material

Tensile strength

Thickness

External diameter

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

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

Tensile strength

Thickness

Mean pitch of stay tubes in nests

If comprising shell, Dia. as per rule

front

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

Buchanan
of Shipping.

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Lloyd's Register
Foundation

W1331-0053

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 _____ 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 23 inclusive for boilers been complied with Yes, so far as they apply to installing

The foregoing is a correct description,
OKARA IRON WORKS, LTD.,

Manufacturer.

Dates of Survey { During progress of work in shops - - } See Glasgow Report N-45785 Is the approved plan of boiler forwarded herewith No
while building { During erection on board vessel - - } 3/5/27. 4/5/27-30/5/27. 4/6/27-14/6/27 Total No. of visits 5

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This Donkey Boiler has been installed on board, in accordance with the Rule requirements & tested under steam pressure with satisfactory results. The safety valves have been adjusted under steam as stated above & the vessel is eligible, in my opinion to have the notation "Donkey Boiler 100" in Register Book.

Note: Two 'Worthington' feed pumps $\frac{4\frac{1}{2} \times 2\frac{3}{4}}{4" \text{ STROKE}}$ steam driven, are fitted in boiler room for supplying feed water to boiler.

All steam & feed pipes are of copper, (Steam 4" dia, Feed 1 1/2" dia)

All steam pipes tested by hydraulic pressure to 200 lbs & found good

" Feed " " " " " 250 " " "

Survey Fee ... £ 50⁰⁰ : When applied for, 18/6/1927
Travelling Expenses (if any) £ SEE HULL RPT. : When received, 19

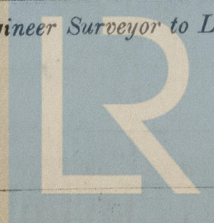
H.D. Buchanan
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 29 JUL 1927

Assigned

See HULL RPT. attached



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