

REPORT ON BOILERS.

No. 40517.

Date of writing Report

16.1.30

When handed in at Local Office

16 Jan 1930

Port of

Received at London Office

17 JAN 1930

HULL

No. in Survey held at

Hull

Date, First Survey

24 July 1929

Last Survey

13 Jan 1930

17408 on the Steam Trawler TEKOURA

(Number of Visits

20)

Gross

334.87

Tons

Net

129.78

Master

Built at

Selby

By whom built

Cochrane & Sons Ltd

Yard No.

1066

When built

1930

Engines made at

Hull

By whom made

Ainslie & Smith Ltd

Engine No.

595

When made

1930

Boilers made at

Hull

By whom made

do

Boiler No.

595

When made

1930

Nominal Horse Power

98

Owners

Brand & Curzon Ltd

Port belonging to

London

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Apperby & Sons Co Ltd

(Letter for Record

(S))

Total Heating Surface of Boilers

1420 Sq. ft

Is forced draught fitted

No

Coal or Oil fired

Coal

No. and Description of Boilers

One single ended return tube

Working Pressure

210 lbs.

Tested by hydraulic pressure to

365 lbs

Date of test

9.10.29

No. of Certificate

3740

Can each boiler be worked separately

Area of Firegrate in each Boiler

51 sq

No. and Description of safety valves to each boiler

2 Spring loaded

Area of each set of valves per boiler

per Rule

9.6 sq

as fitted

9.8

Pressure to which they are adjusted

210 lbs

Are they fitted with easing gear

Yes

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

4"

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

14'-3"

Length

16'-9"

Shell plates: Material

Steel

Tensile strength

29/33 Tons

Thickness

15/16"

Are the shell plates welded or flanged

Yes

Description of riveting: circ. seams

end

inter.

Long. seams

T.R. D.B.S.

Diameter of rivet holes in

circ. seams

long. seams

1 1/2"

Pitch of rivets

4 1/2"

Percentage of strength of circ. end seams

plate

rivets

66.8

Percentage of strength of circ. intermediate seam

plate

rivets

42.2

Percentage of strength of longitudinal joint

plate

rivets

88.4

Working pressure of shell by Rules

230 lbs.

Thickness of butt straps

outer

inner

1 1/2"

No. and Description of Furnaces in each Boiler

One plain

Material

Steel

Tensile strength

26/30 Tons

Smallest outside diameter

42 1/2"

Length of plain part

top

bottom

76"

Thickness of plates

crown

bottom

13/16"

Description of longitudinal joint

Butt

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

Working pressure of furnace by Rules

210 lbs.

End plates in steam space: Material

Steel

Tensile strength

26/30 Tons

Thickness

1 1/2"

Pitch of stays

20" x 17 1/2"

How are stays secured

Nuts & washers

Working pressure by Rules

210 lbs.

Tube plates: Material

front

back

Steel

Tensile strength

26/30 Tons

Thickness

1 1/2"

Mean pitch of stay tubes in nests

9.5"

Pitch across wide water spaces

14"

Working pressure

front

back

212 lbs

Girders to combustion chamber tops: Material

Steel

Tensile strength

29/33 Tons

Depth and thickness of girder

At centre

9 1/4" x 13 1/4"

Length as per Rule

37"

Distance apart

9"

No. and pitch of stays

In each

3 @ 8"

Working pressure by Rules

212 lbs.

Combustion chamber plates: Material

Steel

Tensile strength

26/30 Tons

Thickness: Sides

1 1/2"

Back

1 1/2"

Top

1 1/2"

Bottom

1 1/2"

Pitch of stays to ditto: Sides

9 1/2" x 8"

Back

10 1/2" x 8 1/2"

Top

9" x 8"

Are stays fitted with nuts or riveted over

nuts

Working pressure by Rules

212 lbs

Front plate at bottom: Material

Steel

Tensile strength

26/30 Tons

Thickness

1 1/2"

Lower back plate: Material

Steel

Tensile strength

26/30 Tons

Thickness

1 1/2"

Pitch of stays at wide water space

14" x 8 1/2"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

214 lbs

Main stays: Material

Steel

Tensile strength

28/32 Tons

Diameter

At body of stay,

or

Over threads

3 1/4"

No. of threads per inch

6

Area supported by each stay

350 lbs.

Working pressure by Rules

230 lbs

Screw stays: Material

Steel

Tensile strength

26/30 Tons

Diameter

At turned off part,

or

Over threads

1 7/8" x 1 3/4"

No. of threads per inch

9

Area supported by each stay

86 sq

Working pressure by Rules *251 Lb* Are the stays drilled at the outer ends *ho* Margin stays: Diameter *2" - 17/8"*
 No. of threads per inch *9* Area supported by each stay *113.5 sq* Working pressure by Rules *216 Lb.*
 Tubes: Material *Lin* External diameter *3 1/2"* Thickness *3/8" - 9/16"* No. of threads per inch *9*
 Pitch of tubes *4 3/4"* Working pressure by Rules *215 Lb* Manhole compensation: Size of opening in
 shell plate *16" x 12"* Section of compensating ring *56 7/8 dia* No. of rivets and diameter of rivet holes *16 @ 1 5/16"*
 Outer row rivet pitch at ends *10 1/4"* Depth of flange if manhole flanged *✓* Steam Dome: Material *Steel*
 Tensile strength *26/30 Tons* Thickness of shell *3/4"* Description of longitudinal joint *S.R. Lap.*
 Diameter of rivet holes *1 1/2"* Pitch of rivets *2 1/4"* Percentage of strength of joint *Plate 54.0*
 Internal diameter *36"* Working pressure by Rules *250 Lb* Thickness of crown *1"* Rivets *43.6*
 Stays *2 @ 2 1/2"* Inner radius of crown *✓* Working pressure by Rules *250 Lb*
 How connected to shell *Riveted* Size of doubling plate under dome *56 7/8 dia x 1 1/8"* Diameter of rivet holes and pitch
 of rivets in outer row in dome connection to shell *1 5/16" @ 10 1/4"*

Type of Superheater

Manufacturers of

Tubes

Steel castings

Number of elements Material of tubes Internal diameter and thickness of tubes
 Material of headers Tensile strength Thickness Can the superheater be shut off and
 the boiler be worked separately Is a safety valve fitted to every part of the superheater which can be shut off from the boiler
 Area of each safety valve Are the safety valves fitted with easing gear Working pressure as per
 Rules Pressure to which the safety valves are adjusted Hydraulic test pressure:
 tubes, castings and after assembly in place Are drain cocks or valves fitted
 to free the superheater from water where necessary

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

The foregoing is a correct description,

For AMOS & SONS LTD.

Manufacturer.

Dates of Survey { During progress of work in shops - - }
 while building { During erection on board vessel - - }

See attached report on Machinery.

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

MANAGER

Total No. of visits

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

This boiler has been built under special survey & in accordance with the approved plan, & the materials & workmanship are sound & good. It has been satisfactorily fitted on board, tried under steam & its safety valves adjusted under steam as above.

State invoices were sent with report on sister vessel "Tawana".

Chapman engine report

Survey Fee *£100*
 Travelling Expenses (if any) *£10*

When applied for, *✓* 192
 When received, *✓* 192

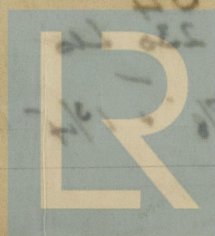
John Shackleton
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 21 JAN 1930

Assigned

See Incl Rpt 40517



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