

REPORT ON BOILERS.

No. 59977

Received at London Office

JUL 15 1938

Date of writing Report

19

When handed in at Local Office

✓ 19

Port of

Glasgow.

No. in Survey held at
Reg. Book.

Glasgow.

Date, First Survey

Last Survey

7th July 1938.

(Number of Visits

8036

Tons { Gross 8036
Net 4760

Master

Built at Glasgow.

By whom built

Harland & Wolff Ltd

Hull No. 10086

When built 1938

Engines made at

Glasgow.

By whom made

Harland & Wolff Ltd

Engine No. 10086

When made 1938

Boilers made at

Belfast

By whom made

do.

Boiler No. 10086

When made 1938

Nominal Horse Power

Owners

Port belonging to

London.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

(Letter for Record

Total Heating Surface of Boilers

Is forced draught fitted

Yes

Coal or Oil fired

oil

No. and Description of Boilers

One Single ended Cylinder Boiler

Working Pressure

180 lb

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

180 lb

Are they fitted with easing gear

Yes

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

Boiler placed on Tween deck aft of engine room and well insulated

Smallest distance between boilers or uptakes and funnels or woodwork

well clear.

Is oil fuel carried in the double bottom under boiler

no.

Smallest distance between shell of boiler and tank top plating

30"

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
rivetsPercentage of strength of circ. intermediate seam { plate
rivetsPercentage 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
bottomThickness 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

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Foundation

Working pressure by Rules Are the stays drilled at the outer ends Margin stays: Diameter { At turned off part, or over threads } Working pressure by Rules

No. of threads per inch Area supported by each stay Thickness { No. of threads per inch

Tubes: Material External diameter { Plain Stay } Working pressure by Rules Manhole compensation: Size of opening

Pitch of tubes Working pressure by Rules No. of rivets and diameter of rivet holes

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 rivets

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 Manufacturers of { Tubes Steel forgings 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 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 forgings and 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 Yes.

The foregoing is a correct description,

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 - - } SEE ACCOMPANYING MACHINERY REPORT. 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.) This boiler has been properly fitted on board and the safety valves adjusted under steam to 180 lbs per sq. in. and found sound and tight.

Safety valve washers. Gotward 5/16" after 1/32"

Survey Fee ... £ : ✓ : When applied for, 19

Travelling Expenses (if any) £ : : When received, 19

Committee's Minute

Assigned SEE ACCOMPANYING MACHINERY REPORT.

G. E. Murdoch
Engineer Surveyor to Lloyd's Register of Shipping.

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13.7.38