

REPORT ON BOILERS.

No. 49728

23 OCT 1929

Date of writing Report

When handed in at Local Office

Received at London Office

No. in
Reg. Book.

Survey held at

Port of

Date, First Survey

Last Survey

(Number of Visits)

Gross Tons

Net Tons

Master

Built at

By whom built

Engines made at

By whom made

Yard No.

When built

Boilers made at

By whom made

Engine No.

When made

Nominal Horse Power

Owners

Boiler No.

When made

Port belonging to

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Total Heating Surface of Boilers

No. and Description of Boilers

Is forced draught fitted

(Letter for Record)

Coal or Oil fired

Working Pressure

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

Pressure to which they are adjusted

Are they fitted with easing gear

Area of each valve, per boiler

as fitted

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

no

Smallest distance between boilers or uptakes and bunkers or woodwork

9"

Smallest distance between shell of boiler and tank top plating

Is oil fuel carried in the double bottom under boilers

no tanks

Largest internal dia. of boilers

11'6"

Length

10'6"

Is the bottom of the boiler insulated

no

Thickness

11/16"

Are the shell plates welded or flanged

no

Shell plates: Material

steel

Tensile strength

28.32 tons

long. seams

WBS TR

Diameter of rivet holes in

circ. seams

13/16"

Description of riveting: circ. seams

end

WBS

Percentage of strength of circ. end seams

plate

64.9

rivets

53.5

Percentage of strength of circ. intermediate seam

plate

84.9

rivets

86

Percentage of strength of longitudinal joint

plate

84.9

rivets

86

Working pressure of shell by Rules

125

Thickness of butt straps

outer

17/32"

inner

31/32"

Material

steel

No. and Description of Furnaces in each Boiler

two, plain

Length of plain part

top

6'5 3/4"

bottom

9'2"

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

none

Description of longitudinal joint

welded

End plates in steam space: Material

steel

Working pressure of furnace by Rules

124

How are stays secured

WN

Tensile strength

26.30 tons

Thickness

1 1/16"

Pitch of stays

23 3/4" x 1 1/2"

Tube plates: Material

front

steel

back

steel

Working pressure by Rules

122

Mean pitch of stay tubes in nests

11 3/4"

Pitch across wide water spaces

14 1/2"

Girders to combustion chamber tops: Material

steel

Tensile strength

28-32 tons

Depth and thickness of girder

front

133

back

125

at centre

2 @ 6 1/2" x 9"

Length as per Rule

2-3 23/32"

Distance apart

8 3/4"

in each

2 @ 9"

Working pressure by Rules

124

Tensile strength

26-30 tons

Thickness: Sides

17/32"

Back

9 1/16"

Top

17/32"

Bottom

15/16"

Pitch of stays to ditto: Sides

9 x 8 1/2"

Back

9 3/8" x 9"

Top

9 x 8 3/4"

Are stays fitted with nuts or riveted over

nuts

Working pressure by Rules

121

Front plate at bottom: Material

steel

Tensile strength

26-30 tons

Thickness

7/8"

Thickness

13/16"

Pitch of stays at wide water space

13"

Working Pressure

124

Main stays: Material

steel

Tensile strength

28-32 tons

Diameter

At body of stay,

2 1/4 & 2"

No. of threads per inch

6

Area supported by each stay

356.25 & 279.0"

Working pressure by Rules

120

Screw stays: Material

iron

Tensile strength

21 1/2 tons

Area supported by each stay

84.0"

Diameter

At turned off part,

1 3/8"

No. of threads per inch

9

Area supported by each stay

84.0"

REPORT ON BOILERS

Working pressure by Rules 120 Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, 1 1/2" or Over threads 1 1/2" ✓

No. of threads per inch 9 Area supported by each stay 100.68 sq. Working pressure by Rules 124

Tubes: Material Iron External diameter { Plain 3 3/4" Stay 3 1/2" Thickness { 9 w.s. 1/4 & 5/16" No. of threads per inch 9

Pitch of tubes 4 3/4" x 4 7/8" Working pressure by Rules 165 Manhole compensation: Size of opening in shell plate 19" x 15" Section of compensating ring 4 1/2" x 11" No. of rivets and diameter of rivet holes 40 @ 1 3/16" ✓

Outer row rivet pitch at ends 5 1/2" Depth of flange of manhole flanged 6 1/2" x 1 1/16" Steam Dome: Material none

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 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 none 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 yes

The foregoing is a correct description,
For David Rowland & Co. Ltd. Manufacturer.
Arch. H. Grierson

Dates of Survey { During progress of work in shops - - See accompanying Machy Report
while building { During erection on board vessel - -

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

Total No. of visits 64

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

The materials and workmanship are good.
The boiler has been constructed under special survey, satisfactorily fitted in the vessel, and its safety valves adjusted under steam.

Survey Fee ... £ 7 : 4 : 10 When applied for, 19.10.1929
Travelling Expenses (if any) £ : : : When received, 22.10.1929

S. C. Davis

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 22 OCT 1929 JRH

Assigned See accompanying Machy Report



© 2021

Lloyd's Register
Foundation