

REPORT ON BOILERS.

No. 49762

Received at London Office

23 OCT 1929

Date of writing Report

192

When handed in at Local Office

Port of

No. in Survey held at
eg. Book.

on the

Master

Engines made at

Boilers made at

Nominal Horse Power

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Total Heating Surface of Boilers

No. and Description of Boilers

Tested by hydraulic pressure to

Area of Firegrate in each Boiler

Area of each set of valves per boiler

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

Smallest distance between shell of boiler and tank top plating

Largest internal dia. of boilers

Thickness

g. seams

Percentage of strength of circ. end seams

Percentage of strength of longitudinal joint

Thickness of butt straps

Material

Length of plain part

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

End plates in steam space

How are stays secured

End plates

Angle of pitch of stay tubes in nests

Ends to combustion chamber tops

Centre

Each

Tensile strength

Angle of stays to ditto

Working pressure by Rules

Thickness

Angle of stays at wide water space

Working Pressure

Area supported by each stay

Working pressure by Rules

Area supported by each stay

Area supported by each stay

Is forced draught fitted

Coal or Oil fired

Working Pressure

Can each boiler be worked separately

Description of safety valves to each boiler

Pressure to which they are adjusted

Are they fitted with easing gear

Is oil fuel carried in the double bottom under boilers

Is the bottom of the boiler insulated

Shell plates: Material

Tensile strength

Description of riveting

Pitch of rivets

Percentage of strength of circ. intermediate seam

Working pressure of shell by Rules

No. and Description of Furnaces in each Boiler

Tensile strength

Smallest outside diameter

Thickness of plates

Description of longitudinal joint

Working pressure of furnace by Rules

Tensile strength

Thickness

Pitch of stays

Working pressure by Rules

Tensile strength

Thickness

Working pressure

Tensile strength

Depth and thickness of girder

Distance apart

No. and pitch of stays

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

Are stays fitted with nuts or riveted over

Front plate at bottom: Material

Tensile strength

Tensile strength

Thickness

Are stays fitted with nuts or riveted over

Main stays: Material

Tensile strength

No. of threads per inch

Area supported by each stay

Screw stays: Material

Tensile strength

No. of threads per inch

Area supported by each stay

Area supported by each stay

Area supported by each stay

Area supported by each stay

Area supported by each stay

Area supported by each stay

Area supported by each stay

Area supported by each stay

Area supported by each stay

Area supported by each stay

Area supported by each stay

REPORT ON BOILERS
Working pressure by Rules 183 & 180 Are the stays drilled at the outer ends ☒ Margin stays: Diameter { At turned off part or Over threads 1 3/4" & 1 7/8"
No. of threads per inch 9 Area supported by each stay 83-2 & 112 0" Working pressure by Rules 183 & 191
Tubes: Material Iron External diameter { Plain 2 1/2" Stay 2 1/2" Thickness { 9 w.g. 5" 3/8" 7" No. of threads per inch 9
Pitch of tubes 3 3/4" x 3 7/8" Working pressure by Rules 230
shell plate 15 1/2" x 19 1/2" Section of compensating ring 8 3/4" x 1 1/2" No. of rivets and diameter of rivet holes 32 @ 1 1/4"
Outer row rivet pitch at ends 8 1/2" Depth of flange if manhole flanged 3" Steam Dome: Material none
Tensile strength 858 Thickness of shell Description of longitudinal joint
Diameter of rivet holes 505 Pitch of rivets Percentage of strength of joint { Plate Rivets
Internal diameter 505 Working pressure by Rules Thickness of crown No. and diameter
stays 505 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
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
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 Rowan & Co. Ltd. Manufactured by W. 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 46

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

The materials and workmanship are good.
The boilers have been constructed under special survey in accordance with the Rules, satisfactorily fitted in the vessel and their safety valves adjusted under steam.

Survey Fee £ ... When applied for, 192
Travelling Expenses (if any) £ ... When received, 192

Committee's Minute GLASGOW 22 OCT 1929
Assigned See Accompanying Machy Report



© 2020

Lloyd's Register Foundation