

## REPORT ON BOILERS.

No. 62389

Received at London Office

MAY 29 1940

of writing Report

19

When handed in at Local Office

28.8.40

Port of

Glasgow

in Survey held at

Book.

on the

at Seattle Wash.

By whom built

Skinner &amp; Eddy Corp.

Yard No.

When built 1919

es made at Hamilton O.

By whom made

Hoover Owens Rentschle

Engine No.

When made 1919

rs made at

By whom made

Boiler No.

When made 1919

nal Horse Power

Owners

Port belonging to

## TITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

(Letter for Record S

1 Heating Surface of Boilers

8052

Is forced draught fitted

no.

Coal or Oil fired

oil

and Description of Boilers

3. S. B.

Working Pressure

210 lbs.

ed by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

of Firegrate in each Boiler

No. and Description of safety valves to each boiler

3 1/2" dia double Spring

of each set of valves per boiler

per Rule

7.5 inch

Pressure to which they are adjusted

210 lbs.

Are they fitted with easing gear

yes

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

Least distance between boilers or uptakes and bunkers

10'-0"

Is oil fuel carried in the double bottom under boilers

No.

Least distance between shell of boiler and tank top plating

24"

Is the bottom of the boiler insulated

Yes.

Least internal dia. of boilers

14'-9"

Length

11'-0"

Shell plates: Material

Steel

Tensile strength

A-R-Lop

Thickness

1 9/16"

Are the shell plates welded or flanged

no.

Description of riveting: circ. seams

end

4"

seams

T. R. D. B. S.

Diameter of rivet holes in

circ. seams

1 7/16"

long. seams

1 9/16"

Pitch of rivets

10"

Percentage of strength of circ. end seams

plate

64.00 %

rivets

Percentage of strength of circ. intermediate seam

plate

%

combined

Percentage of strength of longitudinal joint

plate

84.4 %

rivets

Thickness of butt straps

outer

1"

inner

1 3/8"

No. and Description of Furnaces in each Boiler

3 Corrugated Turbine Section

Material

Steel

Tensile strength

Smallest outside diameter

45 1/16"

Length of plain part

top

10"

bottom

%

Thickness of plates

crown

2 1/32"

bottom

Description of longitudinal joint

Welded.

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

plates in steam space: Material

Steel

Tensile strength

Thickness

1 1/4"

Pitch of stays

16 3/8" x 18"

are stay secured

Double nuts

e plates: Material

front

Steel

Tensile strength

Thickness

13 1/16"

back

"

13 1/16"

Pitch of stay tubes in nests

10.2"

Pitch across wide water spaces

12 5/16"

Boilers to combustion chamber tops: Material

Steel

Tensile strength

Depth and thickness of girder

Centre

11" 2 @ 3/4"

Length as per Rule

34"

Distance apart

8"

No. and pitch of stays

Each

4 @ 7"

Combustion chamber plates: Material

Steel

Tensile strength

Thickness: Sides

1 1/16"

Back

1 1/16"

Top

1 1/16"

Bottom

15 1/16"

Pitch of stays to ditto: Sides

7 3/4" x 7"

Back

7 3/4" x 7 1/4"

Top

7" x 8"

Are stays fitted with nuts or riveted over

yes

Bottom plate at bottom: Material

Steel

Tensile strength

Thickness

13 1/16"

Lower back plate: Material

Steel

Tensile strength

Thickness

13 1/16"

Pitch of stays at wide water space

12 5/16"

Are stays fitted with nuts or riveted over

yes

Main stays: Material

Steel

Tensile strength

Pitch of stays

At body of stay,

3 1/4"

No. of threads per inch

6

Over threads

New stays: Material

Steel

Tensile strength

Pitch of stays

At turned off part,

1 5/8"

No. of threads per inch

12

Over threads



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Are the stays drilled at the outer ends yes Margin stays: Diameter { At turned off part, or Over threads 1 3/4"

No. of threads per inch 12

Tubes: Material Steel External diameter { Plain 3" Stay 3" Thickness { 9 B.W.G. 1/4" No. of threads per inch ✓

Pitch of tubes 4" x 4 1/8" 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 3 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 ✓ Thickness of crown ✓ No. and diameter of stays ✓ Inner radius of crown ✓

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 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 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 ✓

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 ✓

The foregoing is a correct description,

Manufacturer.

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 - - } 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.)

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

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

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

Committee's Minute GLASGOW 28 MAY 1940

Assigned SEE ACCOMPANYING MACHINERY REPORT



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