

REPORT ON BOILERS.

No. 32948

AUG 27 1940

Received at London Office

Sunderland

of writing Report

192

When handed in at Local Office

12 Aug 1940 Port of

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At body of stay,

Over threads

At turned off part,

Over threads

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Appleby-Idingham Steel Co L^d

1344 lb

Is forced draught fitted

No.

(Letter for Record

S.

Coal or Oil fired

local

Working Pressure

220

Can each boiler be worked separately

Yes.

2 Series Spring. (Ordinary).

Are they fitted with easing gear

Yes.

Is oil fuel carried in the double bottom under boilers

No.

Is the bottom of the boiler insulated

Yes.

Shell plates: Material

Steel

Tensile strength

29/33

Description of riveting: circ. seams

end

D.R. Dep.

Pitch of rivets

83/8"

Percentage of strength of circ. intermediate seam

plate

85.07

Working pressure of shell by Rules

221

No. and Description of Furnaces in each Boiler

Two Corrugated (Leighton)

Smallest outside diameter

43 1/16"

Description of longitudinal joint

welded.

Working pressure of furnace by Rules

223

Thickness

1 3/16"

Pitch of stays

18" x 16 1/4"

Working pressure by Rules

224

Thickness

2 1/32"

Working pressure

front 260

Depth and thickness of girder

back 260

No. and pitch of stays

29/33

Combustion chamber plates: Material

Steel

Top

47/64"

Bottom

29/32

Are stays fitted with nuts or riveted over

nuts.

Front plate at bottom: Material

Steel

Tensile strength

26/30

Thickness

1"

Are stays fitted with nuts or riveted over

nuts.

Main stays: Material

Steel

Tensile strength

28/32

Area supported by each stay

18" x 16 3/4"

Tensile strength

26/30

Area supported by each stay

9 1/2" x 9"



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Working pressure by Rules 249 Are the stays drilled at the outer ends No. Margin stays: Diameter { At turned off part, 2" 2 1/4" Over threads }
No. of threads per inch 9 Area supported by each stay 12" x 9 3/8", 12" x 12 3/16" Working pressure by Rules 220 222
Tubes: Material S.D. Steel External diameter { Plain 3 1/4" Stay 3 1/4" Thickness { 5/16" 3/8" No. of threads per inch 9
Pitch of tubes 4 1/2" x 4 3/8" Working pressure by Rules 286, 255, 230 Manhole compensation: Size of open
shell plate (End 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 3/16" 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 diam
stays Inner radius of crown Working pressure by Rules
How connected to shell Size of doubling plate under dome Diameter of rivet holes and
of rivets in outer row in dome connection to shell

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
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
Rules Pressure to which the safety valves are adjusted Hydraulic test pres
tubes castings and after assembly in place Are drain cocks or valves
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,

Dates of Survey { During progress of work in shops - - - Please see Rpt 4 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

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

This boiler has been constructed under Special Survey in accordance with the approved plan & the rules of the Society.
The materials & workmanship are good.
On completion the boiler has been tested by hydraulic pressure of 380 lbs. & found tight & sound. It has been securely fixed on board the vessel, rammed under steam & safety valves adjusted to working pressure

In recommendation please see Mch. Rpt.

Survey Fee ... £
Travelling Expenses (if any) £

See Mch. Rpt.

When applied for, 192
When received, 192

J. T. Fraser.

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

FRI 30 AUG 1940

Assigned

See Std J.E. 32948



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