

REPORT ON BOILERS.

No. 22091

Received at London Office

13 NOV 1936

Date of writing Report

7th Nov. 1936

When handed in at Local Office

19

Port of

Hamburg.

No. in Survey held at

Hamburg

Date, First Survey

21-8-36

Last Survey

22nd Oct 1936

on the

Steel. Sc. "Regulus"

(Number of Visits

7)

Gross

10290.

Net

7627.

Master

Built at Hamburg

By whom built Messrs. Deutsche Werft A.G.

Yard No. 182

When built 1936.

Engines made at

Augsburg

By whom made

Maschinenf. Augsburg-Nürnberg

Engine No. 691120

When made 1936

Boilers made at

Hamburg

By whom made

Messrs. Deutsche Werft A.G.

Boiler No. 550/51

When made 1936

Nominal Horse Power

1167

Owners

Trelleborg's Angfartygs Nya Aktiebolag

Port belonging to

Trelleborg.

Waste Heat La Mont Donkey Boiler Coil System.

~~MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.~~

Manufacturers of Steel Klockner-Werke A.G. Georgsmarienhütte

(Letter for Record S)

as per Total Heating Surface of Boilers

150 m²

Is forced draught fitted

Coal or Oil fired

Exhaust gas fired.

No. and Description of Boilers

1 Waste Heat La Mont Donkey Boiler Coil System.

Working Pressure 12 Kgs./cm²

Tested by hydraulic pressure to

21.5 kpsi

Date of test

31st 8-36

No. of Certificate

631

Can each boiler be worked separately with one of the

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

1; 1 spring loaded.

Area of each set of valves per boiler

per Rule

as fitted

962

Pressure to which they are adjusted

12 Kgs/cm²

Are they fitted with easing gear

yes.

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

Is oil fuel carried in the double bottom under boilers

Tween deck.

Smallest distance between boilers or uptakes and bunkers or woodwork

Tween deck.

Is the bottom of the boiler insulated

yes.

Smallest distance between shell of boiler and tank-top plating

3 m.

Is the bottom of the boiler insulated

yes.

Largest internal dia. of boilers

1580 mm

Length

4040 mm.

Shell plates: Material

O.H. Steel Tensile strength

41/47 Kgs/cm²

Thickness of shell plates welded or flanged

1 of 140 + 100 mm

Are the shell plates welded or flanged

yes.

Description of riveting: circ. seams

end.

inter.

long seams

1 of 110 + 70 mm

Are the shell plates welded or flanged

yes.

Thickness

Pitch of rivets

3 mm.

No. of Coils

18.

Diameter of rivet holes in

circ. seams

26

long seams

32 mm.

Pitch of rivets

3 mm.

Percentage of strength of circ. end seams

plate

rivets

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate

rivets

Working pressure of shell by Rules

yes.

Thickness of butt straps

outer

inner

No. and Description of Furnaces in each Boiler

Material

Tensile strength

yes.

Smallest outside diameter

yes.

Length of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

yes.

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

Working pressure of furnace by Rules

yes.

End plates in steam space: Material

Tensile strength

yes.

Thickness

Pitch of stays

yes.

How are stays secured

yes.

Working pressure by Rules

yes.

Tube plates: Material

front

back

Tensile strength

yes.

Thickness

yes.

Mean pitch of stay tubes in nests

yes.

Pitch across wide water spaces

yes.

Working pressure

front

back

yes.

Girders to combustion chamber tops: Material

Tensile strength

yes.

Thickness

Depth and thickness of girder

yes.

at centre

Length as per Rule

yes.

Distance apart

yes.

No. and pitch of stays

in each

Working pressure by Rules

yes.

Combustion chamber plates: Material

yes.

Tensile strength

Thickness: Sides

Back

Top

Bottom

yes.

Are stays fitted with nuts or riveted over

yes.

Pitch of stays to ditto: Sides

Back

Top

yes.

Working pressure by Rules

yes.

Working pressure by Rules

yes.

Front plate at bottom: Material

Tensile strength

yes.

Thickness

yes.

Pitch of stays at wide water space

yes.

Are stays fitted with nuts or riveted over

yes.

Working Pressure

yes.

Main stays: Material

Tensile strength

yes.

Diameter

At body of stay,

Over threads

yes.

No. of threads per inch

yes.

Area supported by each stay

yes.

Working pressure by Rules

yes.

Screw stays: Material

Tensile strength

yes.

Area supported by each stay

yes.

Diameter

At turned off part,

Over threads

yes.

No. of threads per inch

yes.

Area supported by each stay

yes.

Working pressure by Rules ✓ Are the stays drilled at the outer ends ✓ Margin stays: Diameter { At turned off part, ✓
or
Over threads ✓
No. of threads per inch ✓ Area supported by each stay ✓ Working pressure by Rules ✓
Tubes: Material ✓ External diameter { Plain ✓ Thickness { ✓ No. of threads per inch ✓
Stay ✓
Pitch of tubes ✓ Working pressure by Rules ✓ Manhole compensation: Size of opening
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
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 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,

DEUTSCHE WERFT

Manufacturers

Dates of Survey { During progress of work in shops - - 21-8-36; 28-8-36; 31-8-36 Are the approved plans of boiler and superheater forwarded herewith 4/4/36
while building { During erection on board vessel - - 1-9-36; 16-9-36; 15/10/36; 22/10/36 (If not state date of approval.)
Total No. of visits 7

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. M.S. Marina, Rep. No. 21702.
M.S. Thorsheimer - " 21733.
M.S. Norlys - " 22061.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Waste Heat Donkey Boiler
Coil system has been constructed under special survey, the approved
plans and the Secretary's letters. The materials used in the construction
are of good quality and have been tested by the Society's Surveyors. The
workmanship is good. This W.H.D.B. Coil system is eligible in my
opinion for notation in the Society's Register Book with
+ D.B. Pressure 770 lbs.

Thickness of washers of safety valves = 4.5 mm.

Survey Fee ... £ 84.00. : When applied for, 9th Nov 1936
Travelling Expenses (if any) £ : : When received, 10.12.36

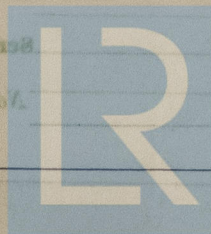
W. J. Mander.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRID 20 NOV 1936

Assigned

See J. Machy Report



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Foundation