

REPORT ON BOILERS.

No. 23097

Received at London Office

MAR 22 1939

of writing Report 16th March 1939 When handed in at Local Office

19

Port of

HAMBURG

in Survey held at

HAMBURG

Date, First Survey

1st October 1938

Last Survey

10th March 1939

193 on the Twin Screw Motor Vessel

BRITANNIA

(Number of Visits 6)

Gross 9977

Tons Net 5801

Built at

HAMBURG

By whom built

Deutsche Werft A.G.

Yard No. 217

When built 1939

Lines made at

Angsborg

By whom made

Maschinenfabrik Angsborg-Kimberg

Engine No. 681450/460 When made 1939

Boilers made at

HAMBURG

By whom made

Deutsche Werft A.G.

Boiler No. 833/834 When made 1939

Nominal Horse Power

1170

Owners

The Texas Co. (Norway) A/S

Port belonging to

Oslo

WASTE HEAT LAMONT DONKEY BOILER COIL SYSTEM.

TUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Tubes: Mannesmannröhrenwerke Abt. Renscheid.

Manufacturers of Steel Headers: Gutehoffnungshütte A.G. Werk Stalderade

(Letter for Record 5.)

Total Heating Surface of Boilers each boiler 100 sq. metres Is forced draught fitted -

Coal or Oil fired exhaust gas fired

and Description of Boilers Two Waste Heat La Mont Donkey Boiler Coil Systems

Working Pressure 12 kg/cm²

Tested by hydraulic pressure to 307 lbs

Date of test 5. 11. 38

No. of Certificate 714, 715

Can each boiler be worked separately with cylinder donkey?

No. and Description of safety valves to each boiler

one, spring loaded

Pressure to which they are adjusted

12 kg/cm²

Are they fitted with easing gear yes

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 -

Is oil fuel carried in the double bottom under boilers -

Smallest distance between shell of boiler and tank top plating -

Is the bottom of the boiler insulated -

Largest internal dia. of boilers 1280 mm Length 3300 mm

HEADERS

Shell plates: Material

S-M-STEEL Tensile strength 44-50 kg/mm²

Thickness of shell 10 mm

Are the shell plates welded on flanged yes

Description of riveting: circ. seams

No. of coils 4 double coils

3 treble coils

2 quadruple coils

Diameter of rivet holes in

32 / 26 mm

Thickness of shell 3 mm

Percentage of strength of circ. end seams

Percentage of strength of circ. intermediate seam

Percentage of strength of longitudinal joint

Working pressure of tubes 16.25 kg/cm²

Thickness of butt straps

No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Length of plain part

Thickness of plates

Description of longitudinal joint

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

Working pressure of furnace by Rules

End plates in steam space: Material

Tensile strength

Thickness

Pitch of stays

How are stays secured

Working pressure by Rules

End plates: Material

Tensile strength

Thickness

Lean pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

Orders to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

Length as per Rule

Distance apart

No. and pitch of stays

Working pressure by Rules

Combustion chamber plates: Material

Tensile strength

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

Working pressure by Rules

Front plate at bottom: Material

Tensile strength

Thickness

Lower back plate: Material

Tensile strength

Thickness

Pitch of stays at wide water space

Are stays fitted with nuts or riveted over

Working Pressure

Main stays: Material

Tensile strength

Diameter

No. of threads per inch

Area supported by each stay

Working pressure by Rules

Screw stays: Material

Tensile strength

Diameter

No. of threads per inch

Area supported by each stay

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
Stay Thickness { No. of threads per inch
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 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
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 at
Rules Pressure to which the safety valves are adjusted Hydraulic test pressure
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 yes

The foregoing is a correct description,

17.3.1939

Manufactured

Dates of Survey { During progress of 1938. October 1st, Nov. 3rd, 5th Are the approved plans of boiler and superheater forwarded herewith 3rd Sept
work in shops - - (If not state date of approval.)
while building { During erection on 1939 Feb. 3rd, 28th, March 10th Total No. of visits 6
board vessel - -

Is this Boiler a duplicate of a previous case yes If so, state Vessel's name and Report No. NUEVA GRANADA Hamburg Report No. 2239
GERMANIA " " " 2309

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

Waste Heat La Mont Donkey Boiler Coil Systems are of good quality.

The materials used in their constructions are made at Works recognised by the Committee and tested by the Society's Surveyors in accordance with the requirements of the Rules.

These Donkey Boiler Coil Systems having been made under Special Survey in conformity with the approved plan, the Secretary's letter and otherwise in compliance with the requirements of the Rules are eligible in my opinion to be classed with notation in the Register Book:

Two Donkey Boilers (W.T) 17.1 lbs/sq. inch pressure.

Thickness of safety valves adjusting washers: Port boiler 4.5 mm, Starboard boiler 6.5 mm.

Survey Fee ... £ R.M. 168 :- When applied for, 17.3 1939

Travelling Expenses (if any) £ : see back report 19

H. Rohrs

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute FRI 31 MAR 1939

Assigned

La F. E. Macky rpt.



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