

REPORT ON BOILERS.

No. 22240

Received at London Office 17 MAR 1937

Date of writing Report 13, Febr. 1937 When handed in at Local Office

Port of HAMBURG

No. in Survey held at HAMBURG

Date, First Survey 7th January

Last Survey 23 January 1937

(Number of Visits 5)

Tons { Gross
Net

on the

Built at Wesermünde G. By whom built Messrs Deschimag Yard No. 572 When built 1937

Engines made at By whom made Engine No. When made

Boilers made at Hamburg By whom made Messrs Deutsche Werft A.G. Boiler No. 693/94 When made 1937

Nominal Horse Power Owners United Afrika Co. Port belonging to Liverpool

Waste Heat La Mont Donkey Boiler Coil System

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Headers:— Klöckner-Werke A.G. Abt. Georgmarienhütte

Manufacturers of Steel Tubes:— Mannesmannröhren-Werke, Witten (Letter for Record S)

Total Heating Surface of Boilers 40m² Is forced draught fitted / Coal or Oil fired Waste Gas Heated

No. and Description of Boilers 2; Waste Heat La Mont Donkey Boilers Working Pressure 7 Kgs/sq cm

Tested by hydraulic pressure to 14/sq cm Date of test 23-1-37 No. of Certificate 653/54 Can each boiler be worked separately only in connection with vertical Donkey Boiler

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 1; one spring loaded

Area of each set of valves per boiler { per Rule
as fitted 707mm:300 Pressure to which they are adjusted Are they fitted with easing gear

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

Height 2700 mm Headers S, M, Steel Shell plates: Material roundbars Tensile strength 41-47 kg/mm²

Thickness 100mm outs 60mm ins: Are the shell plates welded or flanged

Description of riveting: circ. seams { end
inter.

Thickness 100mm outs 60mm ins

No. of Coils 2 double coils Diameter of rivet holes in 26/32 Thickness 3mm

Percentage of strength of circ. end seams { plate
rivetsPercentage of strength of longitudinal joint { plate
rivets

Working pressure of shell by Rules 16.2 Kgs/sq cm

Tubes

Thickness of butt straps { outer
inner

No. and Description of Furnaces in each Boiler

Material Tensile strength Smallest outside diameter

Length of plain part { top
bottom Thickness of plates { crown
bottom 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

Tube plates: Material { front
back Tensile strength ThicknessClean pitch of stay tubes in nests Pitch across wide water spaces Working pressure { front
back

Orders to combustion chamber tops: Material Tensile strength Depth and thickness of girder

centre Length as per Rule Distance apart No. and pitch of stays

each 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 { At body of stay,
or
Over threads No. of threads per inch Area supported by each stay

Working pressure by Rules Screw stays: Material Tensile strength

Diameter { At turned off part,
or
Over threads No. of threads per inch Area supported by each stay

003525-003532-0266

© 2020

Lloyd's Register

Foundation

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 _____

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 _____

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 _____

The foregoing is a correct description,

DEUTSCHE WERFT
 AKTIENGESELLSCHAFT

Manufactured by _____

Dates of Survey { During progress of work in shops - - - January 7, 8, 14, 21, 23, _____ Are the approved plans of boiler and superheater forwarded herewith 2/10/37 (If not state date of approval.)

while building { During erection on board vessel - - - _____ Total No. of visits 5

Is this Boiler a duplicate of a previous case _____ If so, state Vessel's name and Report No. _____

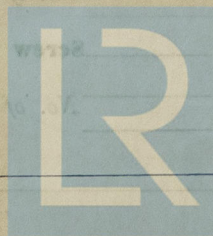
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Material and workmanship of these Was

Heat Donkey Boilers (Coil Systems) are of good quality. They have been constructed
under special survey, in accordance with the approved plan and the Secretary's
Letter. The materials used in the construction are made on Works recognised by the
Committee and tested by the Society's Surveyors. These W.H.D.B. are eligible in
opinion for notation + D.B. pressure 100 lbs.

Both W.H.D. Boilers are shipped to Wesermünde where they will be fitted on board
of Messrs Deschimag Yard 572.

Survey Fee ... R 168: 00 :When applied for, 17. 3. 1937Travelling Expenses (if any) R 5: 00 :When received, 16. 4. 1937

Friedrich Hill
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute FRI 6 AUG 1937Assigned See Buns 1935

© 2020

 Lloyd's Register
 Foundation