

REPORT ON BOILERS.

No. 21965

Received at London Office

-9 JUL 1936

Writing Report 17/6/36

When handed in at Local Office

10

Port of Hamburg

Survey held at Flensburg

Date, First Survey 2/3/36

Last Survey 10/6/36

19

(Number of Visits 12)

Gross Tons
Net

Deutsche Schiff- & Maschinenbau A.G.

Built at Heseermünde

By whom built Werk: Seebeck

Yard No. 548

When built

By whom made

Engine No.

When made

made at Flensburg

By whom made Flensburger Schiffbau-Ges.

Boiler No. 749

When made 1936

al Horse Power

Owners

Port belonging to

LTITUBULAR BOILERS—MAIN, ~~AUXILIARY~~, OR ~~DONKEY~~.

facturers of Steel Mannesmannröhren-Werke, Abt. Heint. Bierres-Hütte, Huckingen (Letter for Record S ✓)

Heating Surface of Boilers 250m² ✓ Is forced draught fitted Coal or Oil fired

nd Description of Boilers 1 multitubular main Boiler Working Pressure 22.8 lb

d by hydraulic pressure to 392 lb Date of test 10/6/36 No. of Certificate 623 Can each boiler be worked separately

of Firegrate in each Boiler 6.85m² No. and Description of safety valves to each boiler

of each set of valves per boiler { per Rule 8930 m² as fitted Pressure to which they are adjusted Are they fitted with easing gear

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

lest distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers

lest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated

est internal dia. of boilers 4650 mm Length 3375 mm Shell plates: Material S.M. Steel Tensile strength 47-54 kg/mm²

thness 38 mm Are the shell plates welded or flanged Flanged ✓ Description of riveting: circ. seams { end Cp. D.R. inter. ✓

seams 2 lb. 6 lb. straps Diameter of rivet holes in { circ. seams 38 mm long. seams 41 mm Pitch of rivets { 109 mm 260 mm ✓

entage of strength of circ. end seams { plate 60% rivets 42% Percentage of strength of circ. intermediate seam { plate ✓ rivets -

entage of strength of longitudinal joint { plate 84% rivets 96% combined 82% Working pressure of shell by Rules 16.2 kg/cm²

thness of butt straps { outer 29.8 mm inner 32.5 mm No. and Description of Furnaces in each Boiler 3 Morison

erial S.M. Steel Tensile strength 41-47 kg/mm² Smallest outside diameter 1187 mm

th of plain part { top Thickness of plates { crown 18.5 mm bottom 18.5 mm Description of longitudinal joint welded

ensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 16.2 kg/cm²

plates in steam space: Material S.M. Steel Tensile strength 41-47 kg/mm² Thickness 27 mm Pitch of stays 455 x 380 mm

are stays secured nuts inside, nuts & washers outside Working pressure by Rules 16.3 kg/cm²

e plates: Material { front S.M. Steel Tensile strength { 41-47 kg/mm² Thickness { 29 mm 23 mm

in pitch of stay tubes in nests 380 x 220 mm Pitch across wide water spaces 370 mm Working pressure { front 16.1 kg/cm² back 17.8 kg/cm²

ders to combustion chamber tops: Material S.M. Steel Tensile strength 47-54 kg/mm² Depth and thickness of girder

entre 235 mm, 2 x 17 mm Length as per Rule 800 mm Distance apart 190 mm No. and pitch of stays

each 3, 180 mm Working pressure by Rules 17.8 kg/cm² Combustion chamber plates: Material S.M. Steel

nsile strength 41-47 kg/mm² Thickness: Sides 16 mm Back 16 mm Top 16 mm Bottom 25 mm

itch of stays to ditto: Sides 180 x 190 mm Back 180 x 200 mm Top 16 mm Are stays fitted with nuts or riveted over with nuts

Working pressure by Rules 17.4 kg/cm² (min) Front plate at bottom: Material S.M. Steel Tensile strength 41-47 kg/mm²

Thickness 29 mm Lower back plate: Material S.M. Steel Tensile strength 41-47 kg/mm² Thickness 26 mm

itch of stays at wide water space 360 x 180 mm Are stays fitted with nuts or riveted over with nuts

Working Pressure 24.1 kg/cm² Main stays: Material S.M. Steel Tensile strength 44-50 kg/mm²

diameter { At body of stay, 72 mm 56 mm No. of threads per inch 6 Area supported by each stay 455 x 430, 360 x 180 mm

Over threads 80 - 64 - Screw stays: Material S.M. Steel Tensile strength 41-47 kg/mm²

Working pressure by Rules 16.2 kg/cm² No. of threads per inch 9 Area supported by each stay 180 x 200 mm

diameter { At turned off part, 39 mm 45 mm

Over threads 39 mm 45 mm

Working pressure by Rules ^① 16.6, ^② 16.3 ^③ 16.3 Are the stays drilled at the outer ends ^④ no Margin stays: Diameter { At turned off part, ✓ or Over threads 48 mm 54 mm
No. of threads per inch 9 Area supported by each stay 280x200, 250x250 mm Working pressure by Rules 17.5 16.5 kg/cm²
Tubes: Material S.M. Steel External diameter { Plain 83 mm Stay 83 mm Thickness { 4 mm 8 mm No. of threads per inch 9
Pitch of tubes 110x110 mm Working pressure by Rules 16 kg/cm² Manhole compensation: Size of opening
shell plate 300x400 mm Section of compensating ring full plate under dome No. of rivets and diameter of rivet holes 24, 38 mm
Outer row rivet pitch at ends 170 mm Depth of flange if manhole flanged ✓ Steam Dome: Material S.M. Steel
Tensile strength 41-47 kg/cm² Thickness of shell 15 mm Description of longitudinal joint Cap. D.R.
Diameter of rivet holes 23 mm Pitch of rivets 87 mm Percentage of strength of joint { Plate 74% Rivets 56%
Internal diameter 800 mm Working pressure by Rules 18.6 kg/cm² Thickness of crown 19 mm No. and diameter
stays none Inner radius of crown 800 mm Working pressure by Rules 16.7 kg/cm²
How connected to shell flanged collar Size of doubling plate under dome 1450 φ, 435 mm Diameter of rivet holes and
of rivets in outer row in dome connection to shell 26 mm, 90 mm

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
Rules Pressure to which the safety valves are adjusted Hydraulic test press
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

Flensburger Schiffsbau-Gesellschaft

The foregoing is a correct description,

Manufact

Dates { 1936: During progress of work in shops - - Mar. 2, 16, 30 Apr. 8, 22, 29 May 6, 12, 19 16 Are the approved plans of boiler and superheater forwarded herewith 8/11/35
while building { During erection on board vessel - - - - - Same: 8, 10 (If not state date of approval.)
Total No. of visits 12

Is this Boiler a duplicate of a previous case gas If so, state Vessel's name and Report No. Ham. Rep. No: 21964

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

This boiler has been built under Special Survey in accordance with the approved plan the Secretary's Letter and in conformity with the requirements of the Rules. The materials used in the construction and the workmanship are of good quality and the boiler is eligible in my opinion to be recorded in the Register Book with 228 lb pressure when it has been satisfactorily fixed on board, its mountings fitted and the boiler examined under steam and its safety valves adjusted.

Mark on Boiler:

The approved plan has been retained for further reference.

To 623

LLOYD'S TEST 392 lb

W.P. 228 lb

P.W. 10.0.36.

will be charged after sample of the metal for which intended.

Survey Fee ... £ : : When applied for, 19
Travelling Expenses (if any) £ : : When received, 19

Engineer Surveyor to Lloyd's Register of Ships

Committee's Minute

TUE. 11 AUG 1936

Assigned

See Boring 7E 1811



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