

REPORT ON BOILERS.

No. 12992.

Received at London Office 27 JUL 1927

ing Report 26. 4. 1924. When handed in at Local Office 26. 4. 1924 Port of MIDDLESBROUGH.

Survey held at STOCKTON. Date, First Survey 5. 4. 24 Last Survey 26. 4. 1924.

on the waste heat boiler for ^{SSC} WOESENDRICHT (Number of Visits 6) Gross 4668 Tons Net 2624

Built at Rotterdam By whom built Maats Lynood Yard No. When built 1916-3
 Made at Rotterdam By whom made Maats Lynood Engine No. When made 1916
 Made at Stockton By whom made Riley Bros (Boilermakers) Ltd. Boiler No. 5452. When made 1924.
 Horse Power Owners N.V. Ph. Van Ommere's Scheep. Port belonging to Rotterdam
 Bedrijfs Ingo

TUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

ers of Steel South Durham Steel & Iron Co. (Letter for Record 8. ✓)

ing Surface of Boilers 1110 #. ✓ Is forced draught fitted - Coal or Oil fired

Description of Boilers One Spencer-Boncount Kirk Patent ✓ Working Pressure 145 lbs.

hydraulic pressure to 268 ✓ Date of test 26. 4. 27. No. of Certificate 6560. ✓ Can each boiler be worked separately

regulate in each Boiler No. and Description of safety valves to each boiler 2 Spring loaded

ch set of valves per boiler { per Rule Original safety valve pressure to which they are adjusted 145 lbs. Are they fitted with easing gear Yes
 as fitted fitted

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

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

Distance between shell of boiler and tank top plating - Is the bottom of the boiler insulated

Internal dia. of boilers 5'-0" ✓ Length 13'-6" ✓ Shell plates: Material Steel ✓ Tensile strength 28/32. ✓

Are the shell plates welded or flanged No. ✓ Description of riveting: circ. seams end S.R. lap ✓
 1/2" ✓ inter. D.R. lap. ✓

D.R.D.R.S. ✓ Diameter of rivet holes in { circ. seams 7/8, 13/16 ✓ Pitch of rivets { 2 1/2" & 2 3/4" ✓
 long. seams 13/16 ✓ 3" ✓

of strength of circ. end seams { plate 61.1 rivets 43.8. Percentage of strength of circ. intermediate seam { plate 40.4 rivets 61.9.

of strength of longitudinal joint { plate 42.9 rivets 106.4 Working pressure of shell by Rules 143 lbs. ✓
 combined

f butt straps { outer 1 1/2" ✓ No. and Description of Furnaces in each Boiler ✓
 inner

Tensile strength Smallest outside diameter

chain part { top Thickness of plates { crown Description of longitudinal joint ✓
 bottom bottom

of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules

in steam space: Material ✓ Tensile strength ✓ Thickness ✓ Pitch of stays ✓

stays secured Working pressure by Rules ✓

s: Material { front Steel ✓ Tensile strength { 26/30. ✓ Thickness { 3/4" ✓
 back

of stay tubes in nests 8 1/4" Pitch across wide water spaces ✓ Working pressure { front 146 lbs ✓
 back

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

Length Thickness: Sides Back Top Bottom

stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over

pressure by Rules Front plate at bottom: Material Tensile strength

Lower back plate: Material Tensile strength Thickness

stays at wide water space Are stays fitted with nuts or riveted over

pressure Main stays: Material Tensile strength

body of stay No. of threads per inch Area supported by each stay

or turned off part, Screw stays: Material Tensile strength

or No. of threads per inch Area supported by each stay

TO WRITE ACROSS THE MARGIN.

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W137-0167

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 *steel* External diameter ☒ Plain *1 1/2 x 1 1/8* Thickness ☒ *10 W.G.* No. of threads per inch *9*

Pitch of tubes *2 1/2 x 2 1/2* Working pressure by Rules *p. 218 s. 142* Manhole compensation: Size *48-13/16*

shell plate *18" x 13"* Section of compensating ring *6" x 1 1/16"* No. of rivets and diameter of rivet holes *48-13/16*

Outer row rivet pitch at ends *3 1/4"* 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 stays

How connected to shell Inner radius of crown Working pressure by Rules

Size of doubling plate under dome Diameter of rivet holes 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 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 pressure

tubes, castings and after assembly in place Are drain cocks or to free the superheater from water where necessary

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with ☒

RILEY BROS. (BOILERMAKERS) LIMITED.
The foregoing is a correct description
J. H. Shields SECRETARY

Dates of Survey ☒ During progress of work in shops - *1922 Jul 5-7-13-20-21-26* Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

☒ During erection on board vessel - *25* Total No. of visits *6*

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

This boiler, except for re-arrangement of tubes, is a duplicate of Messrs. Riley's boiler No 5420 (Hull. Rpt. 12934).

The materials and workmanship are good.

This boiler has been built under special survey in accordance with the Rules and Approved Plan.

Survey Fee ... £ *4-8-0* When applied for, **MONTHLY A/c.** 192

Travelling Expenses (if any) £ : : When received, 192

Committee's Minute **TUES. 23 AUG 1927**

Assigned *See Rot. rpt. No. 16705.*

FRL 2 SEP 1927

M. J. Ma...
Engineer Surveyor to Lloyd's Register



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