

REPORT ON BOILERS.

No. 10757.

Received at London Office FRI. JUL. 30 1920

Writing Report 27.7.20 When handed in at Local Office 29.7.20 Port of MIDDLESBRO
 in Survey held at Stockton-on-Tees Date, First Survey 28th Jan 24 Last Survey 22nd July 1920.
 on the S.S. Ethel Radcliffe (Number of Visits 11) Gross Tons }
 (S.S. No. 196) Net
 Built at Stockton By whom built Messrs Craig Taylor & Co. When built
 By whom made When made
 Stockton By whom made Messrs Riley Bros Ltd (No. 5255) When made 1920
 Owners Port belonging to

See Mdb. Letter 16-12-20
 TITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel John Heneer & Sons

for record (S) Total Heating Surface of Boilers 1590 sq ft Is forced draft fitted No. and Description of

One single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 22.7.20

Certificate 6143 Can each boiler be worked separately ☒ Area of fire grate in each boiler 50 sq ft No. and Description of

valves to each boiler 2 direct spring Area of each valve 5.94 sq ft Pressure to which they are adjusted 185 lb

They fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no.

Test distance between boilers or uptakes and bunkers on woodwork 2'-0" Inside Mean dia. of boilers 12'-6" Length 11'-0"

Material of shell plates steel Thickness 1 1/2" Range of tensile strength 28-32 Are the shell plates welded or flanged no

Pitch of riveting: cir. seams 2 R-lap long. seams 2 B-3 Riv Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 7 1/8"

of plates or width of butt straps 15 3/4" x 1 1/2" in Per centages of strength of longitudinal joint rivets 89.6 plate 85.09 Working pressure of shell by

181 Size of manhole in shell 19" x 15" Size of compensating ring 7 x 1" in. No. and Description of Furnaces in each

3 Brighton Material steel Outside diameter 39 1/4" Length of plain part top Thickness of plates crown 1 1/2" bottom 1 1/2"

Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 199 Combustion chamber

Material steel Thickness: Sides 5/8" Back 2 1/2" Top 5/8" Bottom 1 1/2" Pitch of stays to ditto: Sides 9 x 7 1/2" Back 9 x 8 1/2"

4989 9 x 7 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 183 Material of stays steel Area at

7275 End part 1.75 Area supported by each stay 76.5 Working pressure by rules 181 End plates in steam space: Material steel Thickness 1"

of stays 7 x 15 How are stays secured nuts + washers Working pressure by rules 184 Material of stays steel Area at smallest part 4.57

supported by each stay 255 Working pressure by rules 187 Material of Front plates at bottom steel Thickness 1 1/2" Material of

plate steel Thickness 7/8" Greatest pitch of stays 13 3/4" x 8 1/2" Working pressure of plate by rules 199 Diameter of tubes 3 1/2"

tubes 4 3/8" x 4 1/4" Material of tube plates steel Thickness: Front 1" Back 2 3/32" Mean pitch of stays 9 1/2" Pitch across wide

aces 13 5/8" Working pressures by rules 182 Girders to Chamber tops: Material steel Depth and thickness of

centre 9 1/4" x 1 3/8" Length as per rule 32" Distance apart 9" Number and pitch of Stays in each 30 7 1/2"

pressure by rules 180 Steam dome: description of joint to shell none % of strength of joint

Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Working pressure of shell by rules Crown plates Thickness How stayed

FEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

FOR The foregoing is a correct description,

RILEY BROS. (BOILERMAKERS) LIMITED. Manufacturer.

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During progress of 1920 Jan 28. Feb 3. 11. June 2. 11. 15. 18. 24 Is the approved plan of boiler forwarded herewith yes

work in shops - - July 6. 8. 22 Total No. of visits 11.

During erection on board vessel - - -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under

Survey: is of good material and workmanship and on completion was tested by

hydro pressure with satisfactory results. The boiler is to be fitted on board at this port.

Boiler has now been satisfactorily secured on board, examined under steam and

safety valves adjusted

Survey Fee ... £ 5-2-0 When applied for, Monthly A/C.

Shipping Travelling Expenses (if any) £ : : When received, 19

Committee's Minute TUE. DEC. 14 1920

Signed

W. Morrison
 Engineer Surveyor to Lloyd's Register of Shipping.