

Rpt. 5a.

REPORT ON BOILERS

THU. JUN. 20. 1912

No. 10233

WED. APR. 24. 1912

Received at London Office

MIDDLESBROUGH - TEES.

Date of writing Report 22.4.12 When handed in at Local Office 22.4 10d Port of MIDDLESBROUGH
 No. in Survey held at Stockton-on-Tees Date, First Survey 14 Feb Last Survey 19 April 1912
 Reg. Book. on the S.S. NOVINGTON (S.S.N: 625) Tons } Gross
 Master Built at Thornaby By whom built Richardson Duck & Co When built
 Engines made at By whom made when made
 Boilers made at Stockton By whom made James Riley Bros Ltd (No 4364) when made 1912
 Registered Horse Power Owners Hatherton S.S. Co Port belonging to Foulon

MULTITUBULAR BOILERS — MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel James J. Spencer & Sons

(Letter for record (a)) Total Heating Surface of Boilers 850 sq Is forced draft fitted no No. and Description of

Boilers one single ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 19.4.12

No. of Certificate 4858 Can each boiler be worked separately ✓ Area of fire grate in each boiler 3 1/2 sq No. and Description of

safety valves to each boiler 2 direct spring Area of each valve 6.49 Pressure to which they are adjusted 105 lb

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

Smallest distance between boilers or uptakes and bunkers or woodwork 16" Inside Mean dia. of boilers 10'-6" Length 9'-6"

Material of shell plates steel Thickness 3/16 Range of tensile strength 29-33 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams 2 Riv lap long. seams 2 B-2 Riv Diameter of rivet holes in long. seams 13/16" Pitch of rivets 4 1/2"

Lap of plates or width of butt straps 8 1/2 x 9/16 Per centages of strength of longitudinal joint rivets 92.0 Working pressure of shell by

rules 103 Size of manhole in shell 16" x 12" Size of compensating ring 9 1/2 No. and Description of Furnaces in each

boiler 2 plain Material steel Outside diameter 39" Length of plain part top 66 1/2" Thickness of plates crown 19/32

Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 114 Combustion chamber

plates: Material steel Thickness: Sides 9/16 Back 21/32 Top 9/16 Bottom 25/32 Pitch of stays to ditto: Sides 8" one Back 8 1/2 x 9 1/4

Top 11 x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 183 Material of stays iron Diameter at

smallest part 1.73 Area supported by each stay 80.93 Working pressure by rules 128 End plates in steam space: Material steel Thickness 29/32

Pitch of stays 18 1/2 x 18 to tube How are stays secured 7 x 3/16 washers Working pressure by rules 110 Material of stays iron Diameter at smallest part 5.05

Area supported by each stay 331 Working pressure by rules 115 Material of Front plates at bottom steel Thickness 29/32 Material of

Lower back plate steel Thickness 29/32 Greatest pitch of stays 14 x 9 1/4" Working pressure of plate by rules 201 Diameter of tubes 3"

Pitch of tubes 4 1/2 x 4 1/2" Material of tube plates steel Thickness: Front 29/32 Back 5/8" Mean pitch of stays 10 1/2" Pitch across wide

water spaces 14" Working pressures by rules 138 Girders to Chamber tops: Material iron Depth and thickness of

girder at centre 7 x 1 1/2" Length as per rule 27 Distance apart 11" Number and pitch of Stays in each 2 @ 8"

Working pressure by rules 117 Superheater or Steam chest: how connected to boiler none Can the superheater be shut off and the boiler worked

separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

FOR THE FOREGOING IS A CORRECT DESCRIPTION,
RILEY BROS. (BOILERMAKERS) LIMITED.

Manufacturer.

Dates of Survey } During progress of work in shops - - } 1912. Feb. 14, 16, 21, 27, Mar. 1, 5, 13, 15, Apr. 17, 19
 while building } During erection on board vessel - - - }
 Is the approved plan of boiler forwarded herewith yes
 Total No. of visits 10

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

This boiler has been built under Special Survey, is of good material and workmanship and on completion was tested by hydraulic pressure with satisfactory results. The boiler is to be fitted on board at this port. This boiler has now been satisfactorily secured on board, examined under steam and safety valves adjusted.

Survey Fee ... £ 2-17-0 MONTHLY A/c SURVEY REQUEST NO. 511 REQUEST ATTACHED. 12.6.12

Travelling Expenses (if any) £ ✓ When applied for, 19 When received, 30.5.12

Wm Morrison

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. JUN. 21. 1912

Assigned

See Minute on Roll No. 7427