

SAT. JAN. 31. 1914

Sld Rpt No 25993

Rpt. 5a.

REPORT ON BOILERS.

No. 8247.

MON. DEC. 29. 1913

Date of writing Report 23/12/13 1913 When handed in at Local Office 23. 12. 1913 Port of

MIDDLESBRO'

No. in Survey held at Stockton-on-Tees Date, First Survey 23rd Sept. Last Survey 12th Dec 1913.

Reg. Book. on the New Steel S.S. Kelsomoor (S.S. No 221) Tons Gross 31 1/4 Net 1962

Master W. Waddle Built at Sunderland By whom built John Blumer & Co When built 1914

Engines made at Sunderland By whom made North Eastern Nav Eng Co Ltd. When made 1914

Boilers made at Stockton By whom made Messrs Riley Bros Ltd (No 4543) When made 1913

Registered Horse Power Owners Elbow Line Ltd Port belonging to London

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

Letter for record (S) Total Heating Surface of Boilers 765 sq ft Is forced draft fitted No. and Description of

Boilers One single ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 13.12.13

No. of Certificate 5208 Can each boiler be worked separately Area of fire grate in each boiler 28.4 sq ft No. and Description of

safety valves to each boiler Two spring loaded Area of each valve 5.94 sq in Pressure to which they are adjusted 103 lbs.

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 10 in Main deck. Mean dia. of boilers 9'-6" Length 9'-6"

Material of shell plates steel Thickness 17/32 Range of tensile strength 28-32 Are the shell plates welded or flanged No

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

Pitch of plates or width of butt straps 8 1/2 x 17/32 Per centages of strength of longitudinal joint rivets 97.5 Working pressure of shell by

rules 103 Size of manhole in shell 19 x 15 Size of compensating ring 7 x 3/4 in. No. and Description of Furnaces in each

boiler 2 plain Material steel Outside diameter 35 Length of plain part top 20" Thickness of plates crown 3/8

Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 110 Combustion chamber

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

Top 9 x 8 stays are fitted with nuts or riveted heads nuts Working pressure by rules 103 Material of stays steel Diameter at

smallest part 9/16 Area supported by each stay 74 Working pressure by rules 104 End plates in steam space: Material steel Thickness 3/4

Pitch of stays 14 1/2 to tubes 6 x 5 washers Working pressure by rules 101 Material of stays steel Diameter at smallest part 2.87

Area supported by each stay 271.5 Working pressure by rules 110 Material of Front plates at bottom steel Thickness 3/4 Material of

lower back plate steel Thickness 3/4 Greatest pitch of stays 13 x 8 1/2 Working pressure of plate by rules 166 Diameter of tubes 3 1/4

Pitch of tubes 4 1/2 x 4 1/2 Material of tube plates steel Thickness: Front 3/4 Back 5/8 Mean pitch of stays 10 1/2 Pitch across wide

water spaces 13 1/2 Working pressures by rules 106 Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 6 1/2 x 1 1/2 Length as per rule 28 Distance apart 9 Number and pitch of Stays in each 208

Working pressure by rules 103 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

SURVEY REQUEST

NO. 761 ATTACHED

FOR The foregoing is a correct description,

RILEY BROS. (BOILERMAKERS) LIMITED.

Manufacturer.

Dates of Survey During progress of work in shops - 23rd Sept. 27th Oct. 27th Nov. 8th Dec.

while building During erection on board vessel - Dec. 31 Jan 6 9 16

Is the approved plan of boiler forwarded herewith yes

Total No. of visits 11

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. It has been securely fitted in place, mountings fitted & safety valves adjusted under steam.

Survey Fee ... £ 2 - 11 - 0 When applied for, 191

Travelling Expenses (if any) £ 1 When received, 191

Committee's Minute

Assigned

TUE. FEB. 3 - 1914

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

Lloyd's Register Foundation

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