

REPORT ON BOILERS.

No. 7561
WED. SEP 25. 1912

Received at London Office

Date of writing Report 31 Dec 1912 when handed in at Local Office 24. 9. 1912 Port of MIDDLESBROUGH - N. TEES
 No. in Survey held at Stockton Date, First Survey 27th June Last Survey 16th Sept., 1912
 Reg. Book. 71 on the Boiler for Messrs Philip & Son Ltd - Dartmouth (Number of Visits 16) Gross 88.15 Tons Net 7.75
 Master Built at Dartmouth By whom built Philip & Son Ltd When built 1912
 Engines made at Dartmouth By whom made Philip & Son Ltd when made 1912
 Boilers made at Stockton By whom made Thos Riley Bros (No 4460) when made 1912
 Registered Horse Power Owners The Amazon River Steam Nav. Co (1912) Ltd Port belonging to Para

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

Letter for record (r) Total Heating Surface of Boilers 1050 sq ft Is forced draft fitted No No. and Description of Boilers One single ended Working Pressure 185 Tested by hydraulic pressure to 370 Date of test 16.9.12
 No. of Certificate 4945 Can each boiler be worked separately Area of fire grate in each boiler 36 sq ft No. and Description of safety valves to each boiler Two One Port One Vent & Spring loaded Area of each valve 7.07 Pressure to which they are adjusted 185 lb/sq in
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler
 Smallest distance between boilers or uptakes and bunkers or woodwork 5 inches ^{Inside} Mean dia. of boilers 10'-6" Length 10'-0"
 Material of shell plates steel Thickness 29/32 Range of tensile strength 29-33 Are the shell plates welded or flanged no
 Descrip. 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 3/8"
~~Lap of plates or~~ width of butt straps 15 1/2 x 7/8" Per centages of strength of longitudinal joint rivets 90.5 Working pressure of shell by plate 86.47
 Rules 194 Size of manhole in shell 16" x 12" Size of compensating ring 7" x 1" No. and Description of Furnaces in each boiler 2 Morrison Material steel Outside diameter 40 1/2" Length of plain part ^{top} ^{bottom} Thickness of plates ^{crown} 1/2" ^{bottom} 1/2"
 Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 187 Combustion chamber plates: Material steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 7/8" Pitch of stays to ditto: Sides 9 x 8" Back 8 1/2 x 8" Top 9 x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 186 Material of stays iron Diameter at smallest part 2.07 Area supported by each stay 72 Working pressure by rules 215 End plates in steam space: Material steel Thickness 1 1/2" Pitch of stays 18 1/2 x 14 How are stays secured nuts & washers Working pressure by rules 187 Material of stays steel Diameter at smallest part 5.05
 Area supported by each stay 262.5 Working pressure by rules 200 Material of Front plates at bottom steel Thickness 1 1/2" Material of Lower back plate steel Thickness 1 1/2" Greatest pitch of stays 14" x 8" Working pressure of plate by rules 218 Diameter of tubes 3" Pitch of tubes 4" x 4" Material of tube plates steel Thickness: Front 1 1/2" Back 3/4" Mean pitch of stays 9 1/4" Pitch across wide water spaces 14" Working pressures by rules 208 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 7 1/2" x 1 1/4" Length as per rule 24 5/8" Distance apart 9" Number and pitch of Stays in each 2 @ 8"
 Working pressure by rules 203 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

The foregoing is a correct description, FOR RILEY BROS. (BOILERMAKERS) LIMITED.

Manufacturer.

Dates of Survey During progress of work in shops - - - 1912. June 27 July 4. 6. 17. 23. 25. 31. Aug. 2. 8. 13. 16. 29. Is the approved plan of boiler forwarded herewith yes
 while building During erection on board vessel - - - Sept. 1. 7. 10. 16. Nov. 12. 19. Dec. 4. 13. 20 Total No. of visits 16 + 5 = 21

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. Has since been placed on board, all valves and mountings fitted, examined under steam at full working pressure and found tight and satisfactory.

Survey Fee ... £ 3-10-0 When applied for. 19... NO. 182 ATTACHED.
 Travelling Expenses (if any) £ ... When received. 29 Jan 1913 Credited to Middlesbrough Co. (Ply)

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

Committee's Minute

FRI. FEB - 7 1913

Assigned

see minute on Ply. Pt 15462



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