

REPORT ON BOILERS.

No. 66575
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Writing Report 1st May 1914 When handed in at Local Office 191 Port of Newcastle-on-Tyne
 Survey held at Newcastle Date, First Survey 3rd Dec 1913 Last Survey 24th Aug 1914
 Book. P. P. John Donovan (Number of Visits) Gross 206
 on the P. P. John Donovan Tons Net 78
 Built at Wellington Way By whom built J. J. Eltingham & Co When built 1914
 By whom made J. J. Eltingham & Co 3301 When made 1914
 By whom made Palmer Co No. 767 When made 1914
 Owners R. Hastie & Sons Port belonging to North Shields

WATER TUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel J. Spence & Sons & Palmer Co
 for record S Total Heating Surface of Boilers 1345 sq ft Is forced draft fitted no No. and Description of
one, single-ended Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 29-4-14
 Certificate 8650 Can each boiler be worked separately ✓ Area of fire grate in each boiler 48 sq ft No. and Description of
 valves to each boiler 2 direct spring Area of each valve 4.908 sq in Pressure to which they are adjusted 185 lbs
 they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓
 least distance between boilers or uptakes and bunkers or woodwork 12 in Mean dia. of boilers 12' 9 3/4 in Length 10' - 3 in
 Material of shell plates Steel Thickness 1 1/2 in Range of tensile strength 24 1/2 - 32 Are the shell plates welded or flanged no
 Pitch of riveting: cir. seams 8 Lap long. seams 8 BS Y. Riv Diameter of rivet holes in long. seams 1 1/8 in Pitch of rivets 7 1/2 in
 Width of plates or width of butt straps 16 3/8 in Per centages of strength of longitudinal joint rivets 87.5 Working pressure of shell by
194 lbs Size of manhole in shell 16 x 12 in Size of compensating ring 7 x 1 1/8 in plate 85
 No. and Description of Furnaces in each
3 - plain Material Steel Outside diameter 40 3/8 in Length of plain part top 75 in Thickness of plates crown 49 1/2 in
 bottom 81 in bottom 164 in
 Description of longitudinal joint Welded No. of strengthening rings ✓ Working pressure of furnace by the rules 183 lbs Combustion chamber
 Material Steel Thickness: Sides 5/8 in Back 2 1/32 in Top 5/8 in Bottom 7/8 in Pitch of stays to ditto: Sides 9 x 8 1/4 in Back 9 x 9 in
9 x 8 1/4 in If stays are fitted with nuts or riveted heads nuts Working pressure by rules 181 lbs Material of stays Steel Diameter at
 least part 2.03 in Area supported by each stay 81 in Working pressure by rules 225 lbs End plates in steam space: Material Steel Thickness 1 1/2 in
 of stays 19 x 17 in How are stays secured in. W. Working pressure by rules 144 lbs Material of stays Steel Diameter at smallest part 6.1 in
 supported by each stay 323 in Working pressure by rules 196 lbs Material of Front plates at bottom Steel Thickness 1 in Material of
 front back plate Steel Thickness 1 in Greatest pitch of stays 13 in Working pressure of plate by rules 214 lbs Diameter of tubes 3 1/2 in
 of tubes 4 3/4 x 4 5/8 in Material of tube plates Steel Thickness: Front 1 in Back 3/4 in Mean pitch of stays 9 3/8 in Pitch across wide
 of spaces 14 in Working pressures by rules 182 lbs Girders to Chamber tops: Material Steel Depth and thickness of
 at centre 8 1/2 in x 1 3/4 in Length as per rule 37 1/2 in Distance apart 9 in Number and pitch of Stays in each 2 - 8 1/4 in
 Working pressure by rules 213 lbs 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
 Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓
 fitted 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 ✓

Palmer's Shipbuilders & Iron Co. Ltd.
 The foregoing is a correct description,
 J. Cameron
 Manager, Boiler Shop
 Manufacturer.

Is the approved plan of boiler forwarded herewith yes
 Total No. of visits 18 +

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This main boiler has been constructed under special survey & the materials and workmanship are found to be good

Survey Fee ... £ ...
 Travelling Expenses (if any) £ per machinery Report
 When applied for, 191...
 When received, 191...
 Thomas Field & Co. Cooper
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute
 signed
 FRI. SEP. 11. 1914
 Lloyd's Register Foundation
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