

REPORT ON BOILERS.

Hull Rpt No. 25165

Received at London Office MON. JUN. 24. 1912

Date of writing Report 20.6.12 When handed in at Local Office 21.6.12 Port of MIDDLESBROUGH
 No. in Survey held at Stockton-on-Tees Date, First Survey 21st May Last Survey 15th June 1912
 Reg. Book. on the Boiler for Messrs Crabtree & Co S/S "GERMANO 3" (Number of Visits 8) Gross Tons }
 Net Tons }
 Master Built at Selby By whom built Lockhart & Sons When built 1912
 Engines made at Jammath By whom made Crabtree & Co when made 1912
 Boilers made at Stockton By whom made Messrs Riley Bros (No 4444) when made 1912
 Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spencer & Sons
 (Letter for record (5)) Total Heating Surface of Boilers 470 Is forced draft fitted No No. and Description of Boilers One single ended Working Pressure 130 Tested by hydraulic pressure to 260 Date of test 15.6.12
 No. of Certificate 4892 Can each boiler be worked separately Area of fire grate in each boiler 26~~7~~ No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 3.14 Pressure to which they are adjusted 135 lbs
 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" Inside Mean dia. of boilers 8'-0" Length 8'-0"
 Material of shell plates steel Thickness 9/16 Range of tensile strength 28-32 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams 2 R. lap long. seams 2 B - 2 Riv Diameter of rivet holes in long. seams 13/16 Pitch of rivets 4 3/8
3 Rivets per pitch rivets 95.0 Working pressure of shell by rules 81.4
 Lap of plates or width of butt straps 8 1/2 x 9/16 Per centages of strength of longitudinal joint plate 81.4
 rules 130 Size of manhole in shell 16" x 12" Size of compensating ring 7 x 1" No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 32" Length of plain part top 71" Thickness of plates crown 17/32 bottom 13/32 mean
 Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 133 Combustion chamber plates: Material steel Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 3/4 Pitch of stays to ditto: Sides 10" one Back 8 x 9 1/4 Top 9" one If stays are fitted with nuts or riveted heads nuts Working pressure by rules 146 Material of stays steel Diameter at smallest part 1.48 Area supported by each stay 74 Working pressure by rules 160 End plates in steam space: Material steel Thickness 13/16
 Pitch of stays 13 1/2 14 to tubes How are stays secured nuts & washers Working pressure by rules 145 Material of stays steel Diameter at smallest part 4.11
 Area supported by each stay 225 Working pressure by rules 190 Material of Front plates at bottom steel Thickness 13/16 Material of Lower back plate steel Thickness 13/16 Greatest pitch of stays 13 x 9 1/4 Working pressure of plate by rules 179 Diameter of tubes 3
 Pitch of tubes 4" x 4" Material of tube plates steel Thickness: Front 13/16 Back 5/8 Mean pitch of stays 10 Pitch across wide water spaces 12" Working pressures by rules 140 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 5" x 1 1/2" Length as per rule 18" Distance apart 9" Number and pitch of Stays in each one
 Working pressure by rules 137 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. May 21, 23, June 1, 5, 7, 11, 14, 16.
 while building } During erection on board vessel - - - }
 Is the approved plan of boiler forwarded herewith yes
 Total No. of visits 8 Return for duplicate 13h

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. This boiler is now fixed on board the above vessel. Getting out at Selby.
 SURVEY REQUEST NO. 561 ATTACHED.

Survey Fee ... £ 2-2-0 When applied for MONTHLY A/c.
 Travelling Expenses (if any) £ ✓ When received 19
 Wm Morrison & Co. Surveyors
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. JUL 5 - 1912
 Assigned See minutes in the register
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