

REPORT ON BOILERS.

hon. 72465
No. 5861

Received at London Office

Date of writing Report 19 When handed in at Local Office 2nd June 1909 Port of MIDDLESBROUGH
 No. in Survey held at Stockton-on-Tees Date, First Survey 4th May Last Survey 18th June 1909
 Reg. Book. on the H. Consort (Number of Visits 12) Gross 115
 Master Built at St. Yarmouth By whom built J. Lewis & Co. When built 1910
 Engines made at Yarmouth By whom made Crabtree & Co. when made 1910-3
 Boilers made at Stockton By whom made Messrs Riley Bros (No. 4027) when made 1909
 nominal Horse Power 29 = 62 Owners Port belonging to

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

Letter for record (S) Total Heating Surface of Boilers 1050 Is forced draft fitted No. and Description of

Boilers One Single Ended Working Pressure 120 Tested by hydraulic pressure to 240 Date of test 18.6.09

No. of Certificate 4281 Can each boiler be worked separately Area of fire grate in each boiler 38 1/2 sq ft No. and Description of

safety valves to each boiler Area of each valve Pressure to which they are adjusted

Are they fitted with easing gear 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 Inside dia. of boilers 11'-0" Length 10'-1 5/8"

Material of shell plates Steel Thickness 1/2" Range of tensile strength 28-32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams 3 Riv lap long seams 3 Riv - 3 Riv Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 7"

Gap of plates or width of butt straps 1 3/4" x 1/2" Per centages of strength of longitudinal joint rivets 106. Working pressure of shell by plate 87.57

rules 130. Size of manhole in shell 16" x 12" Size of compensating ring 3" dia No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 3'-4" Length of plain part top 86" Thickness of plates crown 2 1/32"

Description of longitudinal joint Welded No. of strengthening rings none Working pressure of furnace by the rules 127 lbs Combustion chamber

plates: Material steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 27/32" Pitch of stays to ditto: Sides 10" x 9" Back 9" x 9"

Top 9" x 7 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 120 Material of stays steel Diameter at

smallest part 1 1/4" Area supported by each stay 81 Working pressure by rules 121 End plates in steam space: Material steel Thickness 13/16"

Pitch of stays 15" x 15" How are stays secured 3 Riv nuts Working pressure by rules 122 Material of stays steel Diameter at smallest part 2.04"

Area supported by each stay 257 sq" Working pressure by rules 122 Material of Front plates at bottom steel Thickness 13/16" Material of

Lower back plate steel Thickness 13/16" Greatest pitch of stays 14" x 9" Working pressure of plate by rules 165 Diameter of tubes 3 1/2"

Pitch of tubes 4 3/4" x 4 3/4" Material of tube plates steel Thickness: Front 1 3/8" Back 1 1/2" Mean pitch of stays 10.94" Pitch across wide

water spaces 14 1/2" Working pressures by rules 121 Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 6 1/2" x 1 1/4" Length as per rule 27" Distance apart 7 1/2" Number and pitch of Stays in each 2 @ 9"

Working pressure by rules 153 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 - - - 1909 May 7, 14, 18, 24, 25, 27, 28 June 5, 9, 11, 16, 18 Is the approved plan of boiler forwarded herewith yes
while building During erection on board vessel - - -
Total No. of visits 12

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the plan forwarded herewith and in general conformity with the Rules. The material and workmanship are sound and good and the boiler has been tested by hydraulic pressure with satisfactory results

Survey Fee (1/3rd total) £ 3-2-0 When applied for, Monthly 19
Travelling Expenses (if any) £ : : When received, 19

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

Committee's Minute FRI. 8 APL 1910 FRI. 2 SEP 1910 FRI. 16 DEC 1910
Assigned See minute on Lloyds Register Foundation