

REPORT ON BOILERS.

No. 7430.

Received at London Office MON. JUN. 24. 1912

Date of writing Report 20.6.12 When handed in at Local Office 21.6.12 to 11 Port of MIDDLESBROUGH

No. in Survey held at Stockton-on-Tees Date, First Survey 21st May Last Survey 15th June 1912

Reg. Book. Boiler for Messrs Crabtree & Co S/S "GERMANO 3" (Number of Visits 8) Gross Tons 15 Net Tons 14

Master Silby Built at Silby By whom built Lockhart & Sons When built 1912

Engines made at Jamieson 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

(Letter for record (S)) 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 265 Date of test 15.6.12

No. of Certificate 4892 Can each boiler be worked separately ✓ Area of fire grate in each boiler 26^{sq} ft No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 3¹/₄ 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 5ⁱⁿ Inside Mean dia. of boilers 8'-0" Length 8'-0"

Material of shell plates steel Thickness 9¹⁶ 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-3 Riv Diameter of rivet holes in long. seams 13¹⁶ Pitch of rivets 4³/₈

Lap of plates or width of butt straps 8¹/₂ x 9¹⁶ Per centages of strength of longitudinal joint 95.0 Working pressure of shell by 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 71" Thickness of plates 13¹⁶ crown 13¹⁶ bottom 13¹⁶

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 9¹⁶ Back 9¹⁶ Top 9¹⁶ Bottom 3⁴ Pitch of stays to ditto: Sides 10" one Back 8" x 9¹⁶ 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 13¹⁶

Pitch of stays 13¹⁶ 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 13¹⁶ Material of Lower back plate steel Thickness 13¹⁶ Greatest pitch of stays 13 x 9¹⁶ Working pressure of plate by rules 179 Diameter of tubes 3

Pitch of tubes 4" x 4" Material of tube plates steel Thickness: Front 13¹⁶ Back 5⁸ 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 1¹/₂" 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

The foregoing is a correct description,

FOR RILEY BROS. (BOILERMAKERS) LIMITED.

Manufacturer.

Dates of Survey 1912. May 21. 23. June 1. 5. 7. 11. 14. 16.

During progress of work in shops - - -

while building During erection on board vessel - - -

Is the approved plan of boiler forwarded herewith yesTotal No. of visits 8Return for duplicate 13

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. Siting out at Silby.

SURVEY REQUEST NO. 561 ATTACHED.

Survey Fee ... £ 2-2-0

When applied for.

MONTHLY A/c.

Travelling Expenses (if any) £

When received.

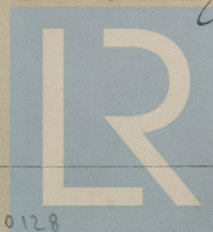
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Committee's Minute

FRI. JUL. 5-1912

Assigned

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



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