

Rpt. 5a.

# REPORT ON BOILERS.

No. 6199

THUR. 14 APR 1910

FRI. 10 MAY 1910

Date of writing Report

10

When handed in at Local Office

Hull

10

Port of

Received at London Office

Huddersbrough

No. in Survey held at

Stockton-on-Tees

Date, First Survey

10th Jan'y.

Last Survey

14th Feb'y. 1910

Reg. Book.

55 upon the

GCR-A

(Number of Visits)  
(90-199)Gross 119  
Net 67

Master

Built at Hull

By whom built Mr. H. Scarr

When built 1910

Engines made at Stockton

By whom made Mr. F. J. Harker

when made 1910

Boilers made at Stockton

By whom made Messrs Riley Bros Ltd (Bldg No 4104) when made 1910

Registered Horse Power

Owners Great Central Railway

Port belonging to Grimsby

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

(Letter for record (a) Total Heating Surface of Boilers 320 sq ft Is forced draft fitted no No. and Description of

Boilers One single ended Working Pressure 120 Tested by hydraulic pressure to 240 Date of test 24.2.10

No. of Certificate 4380 Can each boiler be worked separately Area of fire grate in each boiler 10.3 sq ft No. and Description of

safety valves to each boiler 2 direct spring Area of each valve 3.14 Pressure to which they are adjusted 125 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 4" Inside Mean dia. of boilers 7'-2" Length 7'-0"

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 2 Riv long. seams 2B-3 Riv Diameter of rivet holes in long. seams 13/16 Pitch of rivets 4 3/4"

width of butt straps 12" x 1/2" Per centages of strength of longitudinal joint rivets 97.5 plate 82.94 Working pressure of shell by

rules 127 Size of manhole in shell 16 x 12 Size of compensating ring 9 1/2" No. and Description of Furnaces in each

boiler One plain Material steel Outside diameter 34" Length of plain part top 58" Thickness of plates crown 1/2" bottom 1/2"

Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 113 Combustion chamber

plates: Material steel Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 1/2" Pitch of stays to ditto: Sides 8" Back 8 x 7 1/2"

Top 10 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 120 Material of stays IRON Diameter at

smallest part 1 3/8 Area supported by each stay 68.4 Working pressure by rules 120 End plates in steam space: Material steel Thickness 3/4

Pitch of stays 15 x 14 How are stays secured nuts Working pressure by rules 122 Material of stays IRON Diameter at smallest part 2"

Area supported by each stay 189 Working pressure by rules 124 Material of Front plates at bottom steel Thickness 3/4 Material of

Lower back plate steel Thickness 3/4 Greatest pitch of stays 8 x 7 1/2 Working pressure of plate by rules 300 Diameter of tubes 3"

Pitch of tubes 3 3/4 x 3 3/4 Material of tube plates steel Thickness: Front 3/4 Back 5/8 Mean pitch of stays 9 3/4 Pitch across wide

water spaces 13 1/4 Working pressures by rules 139 lbs Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 5 1/2 x 1 1/4 Length as per rule 18 Distance apart 10 1/2 Number and pitch of Stays in each one

Working pressure by rules 157 Superheater or Steam chest: none 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.

Is the approved plan of boiler forwarded herewith

yes

Total No. of visits

12

Dates of Survey

During progress of work in shops - -

white During erection on board vessel - -

1910. Jan'y. 10. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under Special Survey in accordance with the approved plan the Secretary's letter E-15.12.09 and in general conformity with the Rules. The materials and workmanship are sound and good, and on completion the boiler was tested by hydraulic pressure with satisfactory results. The boiler is to be fitted on board at Hull.

Survey Fee ... £ 2-2-0

When applied for 23. 3. 1910

Travelling Expenses (if any) £

When received 23. 4. 1910

W. Morrison

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

Committee's Minute

FRI. 13 MAY 1910

Assigned

Lloyd's Register

Foundation

W1451-0076