

REPORT ON BOILERS.

No. 5267
SAT. 2 NOV 1907

Received at London Office

Date of writing Report 19 11 When handed in at Local Office 1. 11. 1907 Port of MIDDLEBROUGH-ON-TEES.

No. in Survey held at Stockton Date, First Survey 16 August Last Survey 15 Octbr. 1907.

Reg. Book. on the Main Boiler (No 3817) for Wm Burrell & Co. for an unclassified vessel. (Number of Visits 11) Gross Net

Master _____ Built at _____ By whom built _____ When built _____

Engines made at _____ By whom made _____ when made _____

Boilers made at Stockton By whom made Riley Bros Ltd when made 1907

Registered Horse Power _____ Owners _____ Port belonging to _____

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

(Letter for record (S)) Total Heating Surface of Boilers 680 ft² Is forced draft fitted _____ No. and Description of

Boilers One Cyl. Multi single ended Working Pressure 175 lbs Tested by hydraulic pressure to 350 lbs Date of test 11.10.07

No. of Certificate 4027 Can each boiler be worked separately _____ Area of fire grate in each boiler 27.5 ft² 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 _____ butt Mean dia. of boilers 9'-0" Length 9'-6"

Material of shell plates Steel Thickness $\frac{25}{32}$ Range of tensile strength 28/32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams DR 2 long. seams DR D.B.S. Diameter of rivet holes in long. seams $\frac{15}{16}$ Pitch of rivets 3 1/2 2 rows

Gap of plates or width of butt straps 13" x 3/4" Per centages of strength of longitudinal joint _____ rivets 94 Working pressure of shell by

rules 183 Size of manhole in shell 16" x 21" Size of compensating ring 9" x 1" No. and Description of Furnaces in each

boiler 2 plain Material Steel Outside diameter 2'-8" Length of plain part _____ top 6'-2" Thickness of plates _____ crown } 23"

Description of longitudinal joint welded No. of strengthening rings _____ Working pressure of furnace by the rules 175 Combustion chamber

plates: Material Steel Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 13/16 Pitch of stays to ditto: Sides 8 x 7 1/4 Back 7 x 7 5/8

Top 7 1/4 x 7 1/4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 176 Material of stays Steel Diameter at

smallest part 1 1/4" Area supported by each stay 53.3 Working pressure by rules 184 End plates in steam space: Material Steel Thickness 1 1/4" double

Pitch of stays 16 1/2 x 16 1/2" How are stays secured DR nuts Working pressure by rules 267 Material of stays Steel Diameter at smallest part 2 7/8"

Area supported by each stay 30.1 Working pressure by rules 216 Material of Front plates at bottom Steel Thickness 1" Material of

Lower back plate Steel Thickness 1" Greatest pitch of stays 11 x 7 5/8" Working pressure of plate by rules 386 Diameter of tubes 3 1/4"

Pitch of tubes 4 1/4 x 4 1/4" Material of tube plates Steel Thickness: Front 1" Back 5/8" Mean pitch of stays 8 1/2" Pitch across wide

water spaces 13" Working pressures by rules 194 Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 6 3/4 x 1 1/2" Length as per rule 2'-3" Distance apart 7 1/4" Number and pitch of Stays in each 2 7 3/4"

Working pressure by rules 179 Superheater or Steam chest: how connected to boiler riveted Can the superheater be shut off and the boiler worked

separately _____ Diameter 2'-6" Length 2'-6" Thickness of shell plates 1/2" Material Steel Description of longitudinal joint DR 2 Diam. of rivet

holes 13/16" Pitch of rivets 2" Working pressure of shell by rules 231 Diameter of flue _____ Material of flue plates _____ Thickness _____

If stiffened with rings _____ Distance between rings _____ Working pressure by rules _____ End plates: Thickness 1/2" How stayed 2 stays

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.

J. Spencer & Son Ltd Manufacturer.

Dates of Survey { During progress of work in shops - - } Aug. 16. 31. Sep. 6. 19. 20. 26. 30. Oct. 4. 9. 11. 15. Is the approved plan of boiler forwarded herewith Yes please return for duplicate

{ During erection on board vessel - - - } _____

Total No. of visits _____

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under Special Survey. The materials and workmanship are good. After satisfactorily withstanding the hydraulic test it has been despatched for fitting on board

It is stated to be intended for an unclassified vessel

Survey Fee ... £ 3 : 3 : } When applied for monthly

Travelling Expenses (if any) £ : : } When received, 19

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

FRI 29 NOV 1907

Committee's Minute _____

Assigned not for classification
Committee



BID77-0574

As this Boiler does not appear
to be intended for a classed
vessel submitted that no
further action be taken
in the case.

W. H. 211-07
2.11.07

Note Boiler plan
to be returned
for duplicates

H.



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Foundation