

REPORT ON BOILERS.

No. 5267
SAT. 2 NOV 1907

Received at London Office

Date of writing Report 19 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
 Boilers **One Cyl. Mult. single ended** Working Pressure **175 lb** Tested by hydraulic pressure to **350 lb** Date of test **11.10.07**
 No. of Certificate **4027** Can each boiler be worked separately Area of fire grate in each boiler **27.54 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 **Int'l** 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 **$3\frac{1}{2}$ 2 rows**
 Gap of plates or width of butt straps **$13" \times \frac{3}{4}"$** Per centages of strength of longitudinal joint rivets **94** Working pressure of shell by
 rules **183** Size of manhole in shell **$16" \times 21"$** Size of compensating ring **$9" \times 1"$** 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 **$\frac{23}{32}$**
 bottom **8'-3"** bottom **$\frac{32}{32}$**
 Description of longitudinal joint **welded** No. of strengthening rings **✓** Working pressure of furnace by the rules **175** Combustion chamber
 plates: Material **Steel** Thickness: Sides **$\frac{9}{16}$** Back **$\frac{9}{16}$** Top **$\frac{9}{16}$** Bottom **$\frac{13}{16}$** Pitch of stays to ditto: Sides **$8 \times 7\frac{1}{2}$** Back **$7 \times 7\frac{1}{2}$**
 Top **$7\frac{1}{2} \times 7\frac{1}{2}$** If stays are fitted with nuts or riveted heads **nuts** Working pressure by rules **176** Material of stays **Steel** Diameter at
 smallest part **$1\frac{1}{4}"$** Area supported by each stay **53.3** Working pressure by rules **184** End plates in steam space: Material **Steel** Thickness **$\frac{1}{4}"$ double**
 Pitch of stays **$16\frac{1}{2} \times 16\frac{1}{2}"$** How are stays secured **Dr Nuts** Working pressure by rules **267** Material of stays **Steel** Diameter at smallest part **$2\frac{7}{8}"$**
 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 **$11 \times 7\frac{5}{8}"$** Working pressure of plate by rules **386** Diameter of tubes **$3\frac{1}{4}"$**
 Pitch of tubes **$4\frac{1}{4} \times 4\frac{1}{4}"$** Material of tube plates **Steel** Thickness: Front **1"** Back **$\frac{5}{8}"$** Mean pitch of stays **$8\frac{1}{2}"$** Pitch across wide
 water spaces **$13"$** Working pressures by rules **194** Girders to Chamber tops: Material **Steel** Depth and thickness of
 girder at centre **$6\frac{3}{4} \times 1\frac{1}{2}"$** Length as per rule **$2'-3"$** Distance apart **$7\frac{1}{4}"$** Number and pitch of Stays in each **2 $7\frac{3}{4}"$**
 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 **$\frac{1}{2}"$** Material **Steel** Description of longitudinal joint **DR 2** Diam. of rivet
 holes **$\frac{13}{16}"$** 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 **$\frac{1}{2}"$** How stayed **disks & 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.

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**
 while building 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.L.
2.11.07

Note Boiler plan
to be returned
for duplicate

H.C.



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Foundation