

REPORT ON BOILERS.

No. 5254
THUR. 24 OCT 1907

Received at London Office

Date of writing Report 10 When handed in at Local Office 10 Port of MIDDLESBROUGH-ON-TYNE
 Date, First Survey 24th June Last Survey 13th Oct. 1907
 No. in Survey held at Stockton (Number of Visits 15) Tons { Gross }
 Reg. Book. 244 on the Donkey Boiler No 3867 for S.S. Snowdonian When built 1907
 Built at Stockton By whom built Nicholson Duck & Co when made 1907
 Master Stockton By whom made Polain & Co Ltd when made 1907
 Engines made at Stockton By whom made Piley Bros Ltd when made 1907
 Boilers made at Stockton Port belonging to _____
 Registered Horse Power _____ Owners _____

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

(Letter for record (3)) Total Heating Surface of Boilers 863 Is forced draft fitted no No. and Description of Boilers One Cyl. Multi Single ended Working Pressure 100 lb Tested by hydraulic pressure to 200 lb Date of test 2-8-07

No. of Certificate 3985 Can each boiler be worked separately ✓ Area of fire grate in each boiler 29 No. and Description of safety valves to each boiler Two, spring Area of each valve 5.94 Pressure to which they are adjusted 100 lb

Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no

Smallest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 10'-0" Length 10'-0"

Material of shell plates Steel Thickness 19/32 Range of tensile strength 28/32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams DR L long. seams DR DR S Diameter of rivet holes in long. seams 7/16 Pitch of rivets 4"

Top of plates or width of butt straps 9 1/2 x 9/16 Per centages of strength of longitudinal joint 86.9 Working pressure of shell by rules 105 lb 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 3'-0" Length of plain part 6'-6 1/2" Thickness of plates 19/32 crown } 19/32 bottom }

Description of longitudinal joint welded No. of strengthening rings 17 Working pressure of furnace by the rules 101 Combustion chamber plates: Material Steel Thickness: Sides 1/2" Back 3/32 Top 7/16 Bottom 5/8" Pitch of stays to ditto: Sides 9 1/2 x 7" Back 9 1/2 x 8 1/4"

Top 7 x 7" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 109 Material of stays Steel Diameter at smallest part 1 1/8" Area supported by each stay 78.4 Working pressure by rules 101 End plates in steam space: Material Steel Thickness 13/16"

Pitch of stays 17 x 18" How are stays secured DR riv. stay Working pressure by rules 104 Material of stays Steel Diameter at smallest part 2 1/8"

Area supported by each stay 315 Working pressure by rules 112 Material of front plates at bottom Steel Thickness 13/16" Material of lower back plate Steel Thickness 13/16" Greatest pitch of stays 12 x 9 1/2" Working pressure of plate by rules 195 Diameter of tubes 3 1/2"

Pitch of tubes 4 1/2 x 5 1/8" Material of tube plates Steel Thickness: Front 13/16" Back 9/16" Mean pitch of stays 9 5/8" Pitch across wide water spaces 15 1/2" Working pressures by rules 105 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 5 x 1 1/2" Length as per rule 2'-3" Distance apart 7" Number and pitch of Stays in each 2 7"

Working pressure by rules 106 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 RILEY BROS. BOILERMAKERS LIMITED. The foregoing is a correct description, Manufacturer. A. D. Philston

Dates of Survey { During progress of work in shops - } 1904, June 24, 25, July 11, 14, 20, 24, Aug 1, 2
 { During erection on board vessel - } Sept. 19, 25, 30, Oct. 4, 9, 11, 15
 Is the approved plan of boiler forwarded herewith yes
 Total No. of visits 15

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 fitting and securing on board it has been tried under steam and the safety valves adjusted.

Survey Fee ... £ 2 : 2 : } When applied for, 7.9.1907 RWD
 Travelling Expenses (if any) £ : : } When received, 14.9.1907

R. D. Philston & Geo. A. Milner
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

FRI. 25 OCT 1907

Committee's Minute
Assigned

