

# REPORT ON BOILERS

No. 25222

WED. JUN. 23 1915

Received at London Office

Date of writing Report 1915 When handed in at Local Office 1915 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 25/1/15 Last Survey 15/5/1915

Reg. Book. S.S. "P. Yannon" (Number of Visits 6) Tons } Gross  
 on the } Net

Master Built at Aberdeen By whom built A Hall & Co. N° 514 When built 1915

Engines made at Aberdeen By whom made A Hall & Co. N° 214 When made 1915

Boilers made at Glasgow By whom made D. Rowan & Co (N° B238) When made 1915

Registered Horse Power 41 Owners Aberdeen Pioneer Steam Sinking Co. Port belonging to Aberdeen

**MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel Stewart & Lloyds Ltd

(Letter for record S) Total Heating Surface of Boilers 1250 sq ft Is forced draft fitted no No. and Description of Boilers one single ended

Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 15/5/15

No. of Certificate 13144 Can each boiler be worked separately ✓ Area of fire grate in each boiler 38 sq ft 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 ✓ Mean dia. of boilers 12' 6" Length 10' 3"

Material of shell plates steel Thickness 1 1/2" Range of tensile strength 28 to 32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams Lap double long, seams triple butt Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 7 1/16"

Lap of plates or width of butt straps 17 1/2" Per centages of strength of longitudinal joint rivets 101.5% Working pressure of shell by rules 180 plate 84.5%

Size of manhole in shell 16" x 12" Size of compensating ring 27 1/2" x 30 1/2" No. and Description of Furnaces in each boiler 3 plain

Material steel Outside diameter 39 3/8" Length of plain part 36' 4" Thickness of plates crown 3/4" bottom 3/4"

Description of longitudinal joint welded No. of strengthening rings 1 part Working pressure of furnace by the rules 200 Combustion chamber plates: Material steel Thickness: Sides 21/32" Back 21/32" Top 21/32" Bottom 21/32" Pitch of stays to ditto: Sides 9 3/4" x 8" Back 9 3/4" x 8"

Top 9 3/4" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 188 Material of stays steel Diameter at smallest part 1.76" Area supported by each stay 79 1/2 sq in Working pressure by rules 180 End plates in steam space: Material steel Thickness 1 1/32"

Pitch of stays 16" x 23" How are stays secured 2 nuts Working pressure by rules 186 Material of stays steel Diameter at smallest part 7.06"

Area supported by each stay 390 sq in Working pressure by rules 188 Material of Front plates at bottom steel Thickness 5/8" Material of Lower back plate steel Thickness 25/32" Greatest pitch of stays 12 3/4" Working pressure of plate by rules 187 Diameter of tubes 3 1/2"

Pitch of tubes 4 5/8" x 4 3/4" Material of tube plates steel Thickness: Front 3/8" Back 3/4" Mean pitch of stays 10 1/16" Pitch across wide water spaces 13 1/2" Working pressures by rules 182 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 7 3/4" x 3/4" Length as per rule 30 1/2" Distance apart 8" Number and pitch of Stays in each (2) 9 3/4"

Working pressure by rules 190 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

Survey request form No. 1711 attached

The foregoing is a correct description, for David Rowan & Co Manufacturer.

Dates of Survey } During progress of } 1915 Jan. 25 Feb. 2-19 Mar. 12-30 May. 15 Is the approved plan of boiler forwarded herewith yes ✓  
 while } work in shops - - }  
 building } During erection on }  
 board vessel - - - } Total No. of visits 6

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey the materials and workmanship are of good description. All has now been forwarded to Aberdeen. This boiler has now been fitted on board the above named vessel for recommendation of class. See Abr rept N° 11248.

Ridley Powell

Survey Fee ... £ 4 : : When applied for, 22/6/1915  
 Travelling Expenses (if any) £ : : When received, 20/7/1915

Committee's Minute GLASGOW 22 JUN. 1915  
Assigned TRANSMIT TO LONDON FRI. JUL. 16. 1915

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

