

REPORT ON BOILERS.

No. 28685

Received at London Office

MAR. 31 1910

Date of writing Report 12-1-10 19 When handed in at Local Office 24-3-10 Port of Glasgow 11th January

No. in Survey held at Parsley Date, First Survey 19th Dec 1899 Last Survey 27th Dec 1910
Reg. Book. S/S "Walnut" (Number of Visits 13) Gross 340.34 Tons Net 124.85

Master A. Atkinson Built at Parsley By whom built Fullerton, Co (214) When built 1910
Engines made at Parsley By whom made Fishers Ltd (194) when made 1910
Boilers made at Parsley By whom made A F Craig, Co (1942) when made 1910
Registered Horse Power 66 Owners Frontier Tonnage S/S Co (1899) Port belonging to Avery

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel Stewart & Lloyd Ltd Mossend

(Letter for record S) Total Heating Surface of Boilers 1280 sq ft Is forced draft fitted 910 No. and Description of Boilers One Single Ended Working Pressure 130 Tested by hydraulic pressure to 260 Date of test 11-1-10

No. of Certificate 10254 Can each boiler be worked separately Yes Area of fire grate in each boiler 39 sq ft No. and Description of safety valves to each boiler 2 Direct Springs Area of each valve 5.93 Pressure to which they are adjusted 130

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes

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

Material of shell plates S Thickness 49/64 Range of tensile strength 28/32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams DR. long. seams TR. D B S Diameter of rivet holes in long. seams 13/16 Pitch of rivets 5 1/2"

Length or width of butt straps 11 3/4 Per centages of strength of longitudinal joint rivets 91.5 plate 85-1 Working pressure of shell by rules 132 Size of manhole in shell 16 x 12 Size of compensating ring 8" dia

No. and Description of Furnaces in each boiler 2 Plain Material S Outside diameter 3'-6" Length of plain part top 76 bottom 106 Thickness of plates crown 3 5/8" bottom 7/8"

Description of longitudinal joint mild. No. of strengthening rings 1 Working pressure of furnace by the rules 130 Combustion chamber plates: Material S Thickness: Sides 19/32 Back 19/32 Top 19/32 Bottom 11/16 Pitch of stays to ditto: Sides 9 1/2 x 10" Back 9 1/2 x 9 1/2"

Top 9 1/2 x 14" If stays are fitted with nuts or riveted heads Yes Working pressure by rules 135 Material of stays S Diameter at smallest part 1.48 Area supported by each stay 90" Working pressure by rules 132 End plates in steam space: Material S Thickness 7/8"

Pitch of stays 17 x 16 How are stays secured 29 x 1/2 Working pressure by rules 133 Material of stays S Diameter at smallest part 3.85"

Area supported by each stay 270 Working pressure by rules 142 Material of Front plates at bottom S Thickness 3/4 Material of Lower back plate S Thickness 5/8 Greatest pitch of stays 14 Working pressure of plate by rules 133 Diameter of tubes 3 1/2"

Pitch of tubes 4 1/2 Material of tube plates S Thickness: Front 3/4 Back 11/16 Mean pitch of stays all 11 1/4 Pitch across wide water spaces 14 Working pressures by rules 134 Girders to Chamber tops: Material S Depth and thickness of girder at centre 8 1/2 x 1/2 (2) Length as per rule 28 1/2 Distance apart 9 1/4 Number and pitch of Stays in each 2 x 9"

Working pressure by rules 137 Superheater or Steam chest; how connected to boiler Yes 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

The foregoing is a correct description, Wm Bannan Manufacturer.

Dates of Survey 1909. Oct 19, 27, 29, 31, 1910. 15, 22, Dec 3, 7, 16. Is the approved plan of boiler forwarded herewith Yes

while building During progress of work in shops - - - 24th 1910. January 11. Total No. of visits 13

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 workmanship & material are of good quality

Survey Fee See Machinery Report When applied for 19

Travelling Expenses (if any) £ When received 19

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

Committee's Minute GLASGOW 30 MAR. 1910

Assigned See minute on machinery report

Lloyd's Register Foundation W137-0103

Is a report also sent on the hull of the ship? If not, state whether, and when, one will be sent.