

REPORT ON BOILERS.

No. 40370

WED SEP 22 1920

Port of Glasgow
 Date, First Survey 11.9.1919 Last Survey 18.2.1920
 (Number of Visits 15)
 Gross 1119
 Net 609
 Tons
 Built at Glasgow By whom built Fullerton & Co (No 266) When built 1920
 By whom made W. Beardmore & Son (No 547) When made 1920
 By whom made A. W. Dalgleish (Nos 455-6) When made 1920
 Owners Richard Hughes & Co Port belonging to Liverpool

ULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY— Manufacturers of Steel Beardmore & Steel Coy of Scotland
 Total Heating Surface of Boilers 2550 sq ft Is forced draft fitted no
 Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 10.2.20 No 755
 Area of fire grate in each boiler 38.8 sq ft No. and Description of 10.2.20 No 756
 Area of each valve 4.9 sq ft Pressure to which they are adjusted 185 lbs
 They are fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓
 Diameter of boilers 12'-0" Length 10'-6"
 Thickness 1" Range of tensile strength 28/32 Are the shell plates welded or flanged no
 Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 7 7/8"
 Per centages of strength of longitudinal joint 86.5 Working pressure of shell by 86
 Size of manhole in shell 16 x 12 Size of compensating ring 28 1/2 x 24 1/2 x 1" No. and Description of Furnaces in each 2 - plain
 Outside diameter 3'-6" Length of plain part 3'-4 1/2" Thickness of plates 3/4"
 No. of strengthening rings one Working pressure of furnace by the rules 182 Combustion chamber 10 x 8 1/2
 Material S Thickness 1/16" Back 5/8" Top 1/16" Bottom 13/16" Pitch of stays to ditto: Sides 10 x 8" Back 8 1/2 x 8 1/2"
 Working pressure by rules 189 Material of stays S Diameter at 1 1/2"
 Working pressure by rules 189 End plates in steam space: Material S Thickness 1/32"
 Working pressure by rules 193 Material of Front plates at bottom S Thickness 7/8" Material of 3 1/2"
 Working pressure of plate by rules 197 Diameter of tubes 2 1/2"
 Material of tube plates S Thickness: Front 7/8" Back 23/32" Mean pitch of stays 9 1/2 x 9 1/2" Pitch across wide 2 - 10"
 Working pressures by rules 228 Girders to Chamber tops: Material S Depth and thickness of 2'-9 1/32"
 Distance apart 8 1/2" Number and pitch of Stays in each 2 - 10"
 Superheater or Steam chest: how connected to boiler None Can the superheater be shut off and the boiler worked ✓
 Diameter ✓ Length ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet ✓
 Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓
 Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness ✓ How stayed ✓
 Area of safety valves to superheater ✓ Are they fitted with easing gear ✓

The foregoing is a correct description,
A. W. Dalgleish Manufacturers
 Is the approved plan of boiler forwarded herewith ✓
 Total No. of visits 15

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under special survey. The materials and workmanship are good.

Survey Fee See Machinery Report
 Travelling Expenses (if any) £
 When received, 191
 Committee's Minute See attached Machinery Report.
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.
 Lloyd's Register Foundation
 W688-0188