

REPORT ON BOILERS.

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Date of writing Report 1928 When handed in at Local Office 17.9.1928 Port of Glasgow

No. in Ref. Book. 1 Survey held at Glasgow Date, First Survey 21.6.28 Last Survey 10-9-1928

on the S.S. THE COUNTESS (Number of Visits 10) Tons { Gross 201 Net 201

Master Built at Troon By whom built Ailsa Sps Co Yard No. 406 When built 1928

Engines made at Troon By whom made Ailsa S. B. Co. Ltd Engine No. 141 When made 1928

Boilers made at Glasgow By whom made David Rowan & Co. Ltd Boiler No. 361 When made 1928

Nominal Horse Power 115 Owners J. Hay Sons Ltd Port belonging to Glasgow

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel James Dunlop & Co. Ltd and David Beattie & Sons Ltd (Letter for Record 5)

Total Heating Surface of Boilers 2021 sq ft Is forced draught fitted no Coal or Oil fired coal

No. and Description of Boilers one single ended 15B Working Pressure 200

Tested by hydraulic pressure to 350 Date of test 23-8-28 No. of Certificate 18020 Can each boiler be worked separately -

Area of Firegrate in each Boiler 57 1/2 sq ft No. and Description of safety valves to each boiler X

Area of each set of valves per boiler { per Rule 11.44 as fitted 11.88 Pressure to which they are adjusted 200 lbs Are they fitted with easing gear Yes

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 7'-0" Is oil fuel carried in the double bottom under boilers -

Smallest distance between shell of boiler and tank top plating Open floors Is the bottom of the boiler insulated

Largest internal dia. of boilers 15'-0" Length 10'-9" Shell plates: Material Steel Tensile strength 29-33 tons

Thickness 1 5/16" Are the shell plates welded or flanged no Description of riveting: circ. seams { end NR inter. F3-09/B3-746

long. seams WBS TR Diameter of rivet holes in { circ. seams F1 3/16/B1 3/8" Pitch of rivets { long. seams 1 3/8" F3-09/B3-746

Percentage of strength of circ. end seams { plate F61.5/B63.2 rivets F42.9/B48 Percentage of strength of circ. intermediate seam { plate rivets

Percentage of strength of longitudinal joint { plate 85.5 rivets 88.1 combined 88.7 Working pressure of shell by Rules 200

Thickness of butt straps { outer 6 3/4" inner 1 7/8" No. and Description of Furnaces in each Boiler Three Deighton 3 cf.

Material steel Tensile strength 26-30 tons Smallest outside diameter 3-11 5/16"

Length of plain part { top bottom Thickness of plates { crown 3 1/2" bottom 3 1/2" Description of longitudinal joint welded

Dimensions of stiffening rings on furnace or e.c. bottom Working pressure of furnace by Rules 203

End plates in steam space: Material steel Tensile strength 26-30 tons Thickness 1 9/32" Pitch of stays 19 1/2" x 19 5/8"

How are stays secured DN Working pressure by Rules 200

Tube plates: Material { front steel back steel Tensile strength { 26-30 tons Thickness { 29" 32" 34" 36"

Mean pitch of stay tubes in nests 10 1/2" Pitch across wide water spaces 14 1/4" Working pressure { front 202 back 200

Girders to combustion chamber tops: Material Steel Tensile strength 28-32 tons Depth and thickness of girder at centre 2 @ 1 1/8" x 8 1/2" Length as per Rule 33.58" Distance apart 9 1/2" No. and pitch of stays in each 2 @ 10 3/8" Working pressure by Rules 203 Combustion chamber plates: Material steel

Tensile strength 26-30 tons Thickness: Sides 3/4" Back 3 1/2" Top 3/4" Bottom 3/4"

Pitch of stays to ditto: Sides 10 3/8" x 9 1/4" Back 9 1/4" x 8" Top 10 3/8" x 9 1/2" Are stays fitted with nuts or riveted over nuts

Working pressure by Rules 201 Front plate at bottom: Material steel Tensile strength 26-30 tons

Thickness 29" / 32" Lower back plate: Material steel Tensile strength 26-30 Thickness 25" / 32"

Pitch of stays at wide water space 13 1/2" Are stays fitted with nuts or riveted over nuts

Working Pressure 200 Main stays: Material steel Tensile strength 28-32 tons

Diameter { At body of stay, 3" Over threads 3 1/4" No. of threads per inch 6 Area supported by each stay 388 sq in

Working pressure by Rules 202 Screw stays: Material steel Tensile strength 26-30 tons

Diameter { At turned off part, 1 5/8" Over threads No. of threads per inch 9 Area supported by each stay 74 sq in

