

REPORT ON BOILERS.

No. 49108

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Date of writing Report 12-4-1929 When handed in at Local Office 22-4-1928 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 11-9-28 Last Survey 19-4-1929

on the new steel S/S "CHAUCER". (Number of Visits 76) Gross Tons Net

Master Built at Port Glasgow By whom built Robert Duncan & Co Ltd Yard No. 389 When built 1929

Engines made at Glasgow By whom made David Rowan & Co Ltd Engine No. 892 When made 1929

Boilers made at Glasgow By whom made David Rowan & Co Ltd Boiler No. 892 When made 1929

Nominal Horse Power 557 Owners Shakespeare Shipping Co Ltd Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel James Dunlop & Co Ltd (Letter for Record (S))

Total Heating Surface of Boilers 8334 Is forced draught fitted yes Coal or Oil fired coal

No. and Description of Boilers three single ended Working Pressure 180

Tested by hydraulic pressure to 320 Date of test 21-12-28 No. of Certificate 18151 Can each boiler be worked separately yes

Area of Firegrate in each Boiler 61 1/2 No. and Description of safety valves to each boiler two, direct spring

Area of each set of valves per boiler (per Rule 17.8079, as fitted 19.24) Pressure to which they are adjusted 185 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 9" Is oil fuel carried in the double bottom under boilers no

Smallest distance between shell of boiler and tank top plating 2'-6" Is the bottom of the boiler insulated yes

Largest internal dia. of boilers 16'-3" Length 11'-6" Shell plates: Material steel Tensile strength 29-33 tons

Thickness 1 9/32 Are the shell plates welded or flanged no Description of riveting: circ. seams end DR, inter. -

long. seams DBS TR Diameter of rivet holes in circ. seams F 1 3/16 B 1 5/16 Pitch of rivets F 3.19 B 3.66 9 1/16

Percentage of strength of circ. end seams (plate F 62.4 B 64.4, rivets F 43 B 46) Percentage of strength of circ. intermediate seam (plate 85.5, rivets 86.6, combined 88.3) Working pressure of shell by Rules 182

Thickness of butt straps (outer 31/32, inner 1/32) No. and Description of Furnaces in each Boiler Three Deighton 30"

Material steel Tensile strength 26-30 tons Smallest outside diameter 3-11 1/16

Length of plain part (top, bottom) Thickness of plates (crown 1 9/32, bottom 1 3/32) Description of longitudinal joint welded

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 180

End plates in steam space: Material steel Tensile strength 26-30 tons Thickness 1 7/16 Pitch of stays 23 3/8 x 23

How are stays secured DN Working pressure by Rules 181

Tube plates: Material (front steel, back) Tensile strength (26-30 tons) Thickness (27/32, 47/32, 64/32)

Mean pitch of stay tubes in nests 10 1/4 Pitch across wide water spaces 13 1/2 Working pressure (front 207, back 183)

Girders to combustion chamber tops: Material steel Tensile strength 26-30 tons Depth and thickness of girder

at centre 2 @ 9 1/8 x 7/8 Length as per Rule 36.6 Distance apart 9 1/4 No. and pitch of stays

n each 3 @ 8 3/4 Working pressure by Rules 183 Combustion chamber plates: Material steel

Tensile strength 26-30 tons Thickness: Sides 21/32, Back 21/32, Top 21/32, Bottom 13/16

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

Working pressure by Rules 180 Front plate at bottom: Material steel Tensile strength 26-30 tons

Thickness 27/32 Lower back plate: Material steel Tensile strength 26-30 tons Thickness 25/32

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

Working Pressure 182 Main stays: Material steel Tensile strength 28-32 tons

Diameter (At body of stay, or Over threads) 3 1/4 & 3 3/8 No. of threads per inch 6 Area supported by each stay 506" & 559"

Working pressure by Rules 183 & 193 Screw stays: Material steel Tensile strength 26-30 tons

Diameter (At turned off part, or Over threads) 1 5/8 No. of threads per inch 9 Area supported by each stay 83" & 20"



