

22 SEP 1936
Sld No. 31920
No. 15766

Compst. 5a.

REPORT ON BOILERS.

Received at London Office 14 AUG 1936

of writing Report 30. 7. 1936 When handed in at Local Office 30. 7. 1936 Port of MIDDLESBROUGH

603. in Survey held at STOCKTON. Date, First Survey 4 June Last Survey 28. 7. 1936.

600. on the M.V. "SKIPSEA" (Number of Visits) Gross 4974 Tons Net 3031

ter Built at Sunderland. By whom built W. Doxford & Sons Ltd. Yard No. 628. When built 1936

ines made at Sunderland By whom made W. Doxford & Sons Ltd. Engine No. 628 When made 1936

lers made at Stockton By whom made Stockton Chem. Eng. & Riley Blks. Boiler No. 6210 When made 1936.

inal Horse Power Owners W. Brown, Atkinson & Co. Ltd. Port belonging to Hull.

ULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel The Steel Company of Scotland (Letter for Record 5.)

otal Heating Surface of Boilers 1660 sq. ft. Is forced draught fitted Yes. Coal or Oil fired oil.

o. and Description of Boilers 1 SB. Working Pressure 120 lbs.

ested by hydraulic pressure to 230 lbs. Date of test 20. 7. 36. No. of Certificate 6894. Can each boiler be worked separately ✓

rea of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 Direct Spring

rea of each set of valves per boiler {per Rule 15.3 sq. in. as fitted 19.2 sq. in. Pressure to which they are adjusted 120 1/2 lbs. Are they fitted with easing gear Yes.

n case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓

36 smallest distance between boilers or uptakes and bunkers or woodwork ✓ Is oil fuel carried in the double bottom under boilers no.

18/36 smallest distance between shell of boiler and tank top plating 2'-10" Is the bottom of the boiler insulated Yes.

3/36 largest internal dia. of boilers 11'-10 5/8" Length 11'-6" Shell plates: Material steel Tensile strength 29/33.

3/36 Thickness 1 1/16" Are the shell plates welded or flanged no. Description of riveting: circ. seams {end 3/8" inter. 3/8"}

12/22 long. seams T.R.D.B.S (4 rivets) Diameter of rivet holes in {circ. seams 1 1/16" long. seams 1 3/16" Pitch of rivets {5 3/8"}

12/12 Percentage of strength of circ. end seams {plate 68.5% rivets 45.6% Percentage of strength of circ. intermediate seam {plate 84.9% rivets 83.8%}

5/8/36 W.H. Percentage of strength of longitudinal joint {plate 84.9% rivets 83.8% combined Working pressure of shell by Rules 123 lbs.

36 Thickness of butt straps {outer 2" inner 1 1/2" No. and Description of Furnaces in each Boiler 2 c.f.

Material steel Tensile strength 26/30 Smallest outside diameter 3'-11 1/2" 3'-8 1/2"

Length of plain part {top 13" bottom 32" Thickness of plates {crown 13" bottom 32" Description of longitudinal joint weld.

Dimensions of stiffening rings on furnace or c.c. bottom ✓ Working pressure of furnace by Rules 121 lbs.

End plates in steam space: Material steel Tensile strength 26/30 Thickness 32 Pitch of stays 17" x 16"

How are stays secured D.N. & W. Working pressure by Rules 142 lbs. 27.

Tube plates: Material {front steel back steel Tensile strength {26/30 Thickness {32 13" 16"

Mean pitch of stay tubes in nests 9 3/8" Pitch across wide water spaces 14" Working pressure {front 157 lbs. back 249.

Girders to combustion chamber tops: Material steel Tensile strength 28/32 Depth and thickness of girder

at centre 7 x 5/8 (double) Length as per Rule 31 1/16 Distance apart 9" No. and pitch of stays

in each 2.9 1/4" Working pressure by Rules 120 lbs. Combustion chamber plates: Material steel

Tensile strength 26/30 Thickness: Sides 32 Back 19 7/16 Top 32 Bottom 8

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

Working pressure by Rules 129 lbs. Front plate at bottom: Material steel Tensile strength 26/30

Thickness 32 Lower back plate: Material steel Tensile strength 26/30 Thickness 32

Pitch of stays at wide water space 13 1/2" x 9 1/2" Are stays fitted with nuts or riveted over nuts

Working Pressure 201 lbs. Main stays: Material steel Tensile strength 28/32

Diameter {At body of stay, 2 1/4" No. of threads per inch 6 Area supported by each stay 288.4 sq. in.

Working pressure by Rules 120 lbs. Screw stays: Material steel Tensile strength 26/30

Diameter {At turned off part, 1 3/8" No. of threads per inch 9 Area supported by each stay 84 sq. in.

