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12 JUL 1926

# REPORT ON BOILERS.

No. 80324

Received at London Office 24 APR 1926

Writing Report 19-4-1926 When handed in at Local Office 28-4-1926 Port of Newcastle-on-Tyne

Survey held at Hebburn Date, First Survey 23<sup>rd</sup> October 1925 Last Survey 16<sup>th</sup> March 1926

(Number of Visits 16) Tons { Gross 244 Net 12

on the S. Tug FOREMOST No. 41

Built at Aberdeen By whom built Alex. Hall & Co. Ltd. Yard No. 597 When built 1926

made at Aberdeen By whom made Alex. Hall & Co. Ltd. Engine No. 295 When made 1926

made at Hebburn By whom made Palmers S.B. & J. Co. Ltd. Boiler No. 1059 When made 1926

Horse Power - Owners James Dredging Co. & Transport Co. Ltd. Port belonging to London.

## TITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Mannesmannrohren Werk. Abt. Schulz Knandt, Huchingen (Letter for Record S)

Heating Surface of Boilers 1984 sq. ft. Is forced draught fitted No Coal or Oil fired Coal

26 Description of Boilers One, cyl. mult. S.E. boiler Working Pressure 185 lbs. sq. in.

by hydraulic pressure to 328 lbs. Date of test 16-4-26 No. of Certificate 9990 Can each boiler be worked separately

of Firegrate in each Boiler 50 sq. ft. No. and Description of safety valves to each boiler Two Spring loaded.

of each set of valves per boiler { per Rule 12.4 sq. in. as fitted 14.14 sq. in. Pressure to which they are adjusted 190 lbs. sq. in. Are they fitted with easing gear Yes

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

Least distance between boilers or uptakes and bunkers or woodwork 8" Is oil fuel carried in the double bottom under boilers No

Least distance between shell of boiler and tank top plating Is the bottom of the boiler insulated

Least internal dia. of boilers 14'-0" Length 11'-6" Shell plates: Material Steel Tensile strength 28.32 tons

Are the shell plates welded or flanged No Description of riveting: circ. seams { end D.R. inner 4" } 1 3/16"

Seams T.R., D.B.S. Diameter of rivet holes in { circ. seams 1 1/4" long. seams 1 1/2" } Pitch of rivets { 8 3/4" }

Percentage of strength of circ. end seams { plate 68.75% rivets 63% } Percentage of strength of circ. intermediate seam { plate 86.4% rivets 91% }

Percentage of strength of longitudinal joint { plate 86.4% rivets 91% } Working pressure of shell by Rules 188 lbs. sq. in.

Thickness of butt straps { outer 1 3/16" inner 1 3/16" } No. and Description of Furnaces in each Boiler Two Deighton

Material Steel Tensile strength 26-30 tons Smallest outside diameter 4'-4 1/4"

Thickness of plates { crown 5/8" bottom 5/8" } Description of longitudinal joint Weld

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 185 lbs. sq. in.

plates in steam space: Material Steel Tensile strength 26-30 tons Thickness 1 3/16" Pitch of stays 20" x 20"

Are stays secured Double nuts and washers Working pressure by Rules 196 lbs. sq. in.

plates: Material { front Steel back Steel } Tensile strength { 26-30 tons } Thickness { 29/32" 3/4" }

pitch of stay tubes in nests 10" Pitch across wide water spaces 14" Working pressure { front 261 lbs. sq. in. back 182 lbs. sq. in. }

Stays to combustion chamber tops: Material Steel Tensile strength 28-32 tons Depth and thickness of girder

Centre 9 1/2" x 1 5/8" Length as per Rule 35" Distance apart 10" No. and pitch of stays

each 3 @ 8 1/4" Working pressure by Rules 184 lbs. sq. in. Combustion chamber plates: Material Steel

Thickness: Sides 1/16" Back 1/16" Top 1/16" Bottom 1"

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

Working pressure by Rules 192 lbs. sq. in. Front plate at bottom: Material Steel Tensile strength 26-30 tons

Thickness 29/32" Lower back plate: Material Steel Tensile strength 26-30 tons Thickness 29/32"

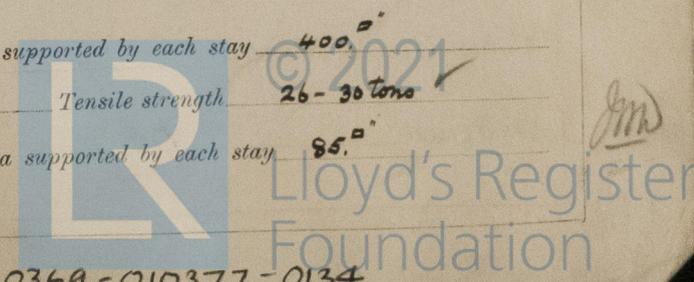
of stays at wide water space 10" x 14" Are stays fitted with nuts or riveted over Nuts

Working Pressure 196 lbs. sq. in. Main stays: Material Steel Tensile strength 28-32 tons

At body of stay, or Over threads 3 3/4" No. of threads per inch 6 Area supported by each stay 400 sq. in.

Working pressure by Rules 200 lbs. sq. in. Screw stays: Material Steel Tensile strength 26-30 tons

At turned off part, or Over threads 1 3/4" No. of threads per inch 9 Area supported by each stay 85 sq. in.



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