

REPORT ON BOILERS.

No. 83093

8 AUG 1928

Received at London Office

Writing Report 30-7-1928 When handed in at Local Office 4-8-1928 Port of NEWCASTLE-ON-TYNE

Survey held at Jarrow Date, First Survey 10 June 1927 Last Survey 27 July 1928

on the M.V. BRITISH HONOUR (Number of Visits 48) Gross Tons 6991 Net Tons 4174

Built at Jarrow By whom built Palmers Co. Ltd Yard No. 970 When built 1928

Engine made at Winterthur By whom made Sulzer Bros. Engine No. 5684 When made 1928

Boiler made at Jarrow By whom made Palmers Co. Ltd Boiler No. 970 When made 1928

Indicated Horse Power 748 Owners Tankers Ltd Port belonging to London

LTTUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Steel Company of Scotland Ltd. (Letter for Record)

Heating Surface of Boilers 2680 Is forced draught fitted YES Coal or Oil fired OIL

and Description of Boilers TWO SINGLE ENDED Working Pressure 150 LBS.

Tested by hydraulic pressure to 275 LBS. Date of test 13-1-28 No. of Certificate No 224-230 Can each boiler be worked separately YES

No. and Description of safety valves to each boiler TWO DOUBLE SPRING LOADED

of each set of valves per boiler {per Rule 12.17 as fitted 14.137 Pressure to which they are adjusted 160 LBS. Are they fitted with easing gear YES

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

Nearest distance between boilers or uptakes and bunkers or woodwork 2' 6" Is oil fuel carried in the double bottom under boilers NO

Nearest distance between shell of boiler and tank top plating

Nearest internal dia. of boilers 11' 6" Length 11' 6" Shell plates: Material STEEL Tensile strength 28-32 TONS.

Thickness 7/8" Are the shell plates welded or flanged No Description of riveting: circ. seams {end D.R. inter. 3-2559"

seams T.R.D.B.S. Diameter of rivet holes in {circ. seams 1 1/8" long. seams 1" Pitch of rivets {plate 5" rivets 5"

Percentage of strength of circ. end seams {plate 67.3% rivets 51.4% Percentage of strength of circ. intermediate seam {plate 80.0% rivets 83.4%

Percentage of strength of longitudinal joint {plate 80.0% rivets 83.4% combined

Working pressure of shell by Rules 153 LBS.

Thickness of butt straps {outer 9/16" inner 1/8" No. and Description of Furnaces in each Boiler TWO CORRUGATED DEIGHTON SECTION

Material STEEL Tensile strength 26-30 TONS. Smallest outside diameter 3' 4 3/8"

Length of plain part {top 10 1/2" bottom 10 1/2" Thickness of plates {crown 7/16" bottom 7/16" Description of longitudinal joint WELD

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 154 LBS.

1 plates in steam space: Material STEEL Tensile strength 26-30 TONS. Thickness 15/16" Pitch of stays 17" x 15"

How are stays secured DOUBLE NUTS & WASHERS Working pressure by Rules 157 LBS.

End plates: Material {front STEEL back " Tensile strength {front 26-30 TONS. back " Thickness {front 25/32" back 23/32"

Working pressure {front 153 LBS. back 166

Pitch of stay tubes in nests 10' 5" Pitch across wide water spaces 14' 25" Depth and thickness of girder

Boards to combustion chamber tops: Material STEEL Tensile strength 26-32 TONS. No. and pitch of stays

centre 8" x 1 1/4" Length as per Rule 2' 7 1/8" Distance apart 8 1/2"

each 2 @ 10" Working pressure by Rules 162 LBS. Combustion chamber plates: Material STEEL

Tensile strength 26-30 TONS. Thickness: Sides 21/32" Back 3/4" Top 21/32" Bottom 3/32"

Thickness of stays to ditto: Sides 8 3/4" x 11" Back 8" x 10" Top 10" x 8 1/2" Are stays fitted with nuts or riveted over BOTH

Working pressure by Rules 152 LBS. Front plate at bottom: Material STEEL Tensile strength 26-30 TONS. Thickness 27/32"

Thickness 25/32" Lower back plate: Material STEEL Tensile strength 26-30 TONS. Thickness 27/32"

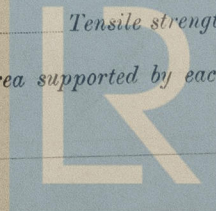
Thickness of stays at wide water space d=19.5" Are stays fitted with nuts or riveted over NUTS

Working Pressure 159 LBS. Main stays: Material STEEL Tensile strength 28-32 TONS.

Diameter {At body of stay, 2 3/8" No. of threads per inch 6 Area supported by each stay 255

Working pressure by Rules 154 LBS. Screw stays: Material W. IRON Tensile strength 23 TONS.

Diameter {At turned off part, 1 1/2" No. of threads per inch 9 Area supported by each stay 80



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