

Rpt. 5a.

REPORT ON BOILERS.

Id. No. 34589

No. 18127

Received at London Office 27 AUG 1946

5 DEC 1946

Date of writing Report 21/8/1946. When handed in at Local Office 26/8/1946. Port of MIDDLESBROUGH.

No. in Survey held at Stockton-on-Tees. Date, First Survey 14th Nov. 1945, Last Survey 15th Aug. 1946. Reg. Book. (Number of Visits 25.) Gross 6095 Tons Net 3329

on the "BRITISH ENTERPRISE"

Built at Sunderland By whom built Wm. Doxford & Sons Ltd. Yard No. 738 When built 1946

Engines made at Sunderland. By whom made Wm. Doxford & Sons Ltd. Engine No. 738 When made 1946

Boilers made at Stockton-on-Tees. By whom made Stockton Chemical Engineers & Riley Boilers Ltd. Boiler No. 6933 When made 1946

Nominal Horse Power Owners British Landers Co Ltd Port belonging to London.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Appleby Frodingham Steel Co. Ltd. (Letter for Record S)

Total Heating Surface of Boilers 2020 sq. ft. Is forced draught fitted No. Coal or Oil fired Oil & 44% gas Working Pressure 150 lbs/sq. in.

No. and Description of Boilers 1 S.E. Multitubular.

Tested by hydraulic pressure to 275 lbs Date of test 15/8/46. No. of Certificate 7185 Can each boiler be worked separately

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 3" double high lift.

Area of each set of valves per boiler {per Rule 14.12 15.3 for ordinary valves. Pressure to which they are adjusted 150 Are they fitted with easing gear No.

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 Is oil fuel carried in the double bottom under boilers No

Smallest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated No

Largest internal dia. of boilers 12'-10.3/16" Length 11'-6" Shell plates: Material Steel Tensile strength 29-33

Thickness 29/32" Are the shell plates welded or flanged Description of riveting: circ. seams {end DR. Lap. inter. 3.187

long. seams TR.DBS. Diameter of rivet holes in {circ. seams 1.1/16" Pitch of rivets {7.1/16" long. seams 1.1/16"

Percentage of strength of circ. end seams {plate 66.6% rivets 48.7 Percentage of strength of circ. intermediate seam {plate rivets

Percentage of strength of longitudinal joint {plate 84.9 rivets 103 combined

Thickness of butt straps {outer 23/32" inner 27/32" No. and Description of Furnaces in each Boiler 2 Deighton Corrugated.

Material Steel Tensile strength 26-30 Smallest outside diameter 3'-10"

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

Dimensions of stiffening rings on furnace or c.c. bottom

End plates in steam space: Material Steel Tensile strength 26-30 Thickness 1" Pitch of stays 18" x 17"

How are stays secured Double nuts and washers screwed into both plates

Tube plates: Material {front Steel Tensile strength 26-30 Thickness {2" back 3/4"

Mean pitch of stay tubes in nests 9 3/8" Pitch across wide water spaces 13 1/2"

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

at centre 7" - 2 @ 5/8" Length as per Rule 2'-3 1/2" Distance apart 9" No. and pitch of stays

in each 2 @ 9" Combustion chamber plates: Material Steel

Tensile strength 26-30 Thickness: Sides 21/32" Back 19/32" Top 21/32" Bottom 21/32"

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

Front plate at bottom: Material Steel Tensile strength 26-30 Thickness 3/8"

Lower back plate: Material Steel Tensile strength 26-30 Thickness 3/8"

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

Main stays: Material Steel Tensile strength 28-32

Diameter {At body of stay, or Over threads 2 3/4" No. of threads per inch 6

Screw stays: Material Steel Tensile strength 26-30

Diameter {At turned off part, or Over threads 1 1/2" No. of threads per inch 9

002449-002456-0151

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