

Rpt. 5a.

REPORT ON BOILERS.

Sta No. 34589

Hull No. 18128.

AUG 1946

Received at London Office

27 AUG 1946

25 DEC 1946

Date of writing Report 22/8/ 19 46 When handed in at Local Office 26/8/ 19 46 Port of MIDDLESBROUGH.

No. in Reg. Book. Surrey held at Stockton-on-Tees. Date, First Survey 14th Nov. 1945. Last Survey 20th Aug. 19 46.

"BRITISH ENTERPRISE"

(Number of Visits 26.)

Tons { Gross 6095
Net 3329

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 C.E. & Riley Boilers Ltd. Boiler No. 6934 When made 1946.

Nominal Horse Power Owners British Tanker 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. feet.

Is forced draught fitted Yes

Coal or Oil fired Oil & gas

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

Working Pressure 150 lbs./sq. in.

Tested by hydraulic pressure to 275 lbs Date of test 20/8/46. No. of Certificate 7186 Can each boiler be worked separately Yes.

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
as fitted 15.4 Pressure to which they are adjusted 150 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 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 Yes.

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. 3.187long. seams TR. DBS. Diameter of rivet holes in { circ. seams 1 1/16"
long. seams 1 1/16" Pitch of rivets { 7 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
combinedThickness 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 2
bottom Thickness of plates { crown 1/2"
bottom 1/2" Description of longitudinal joint welded

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
back steel Tensile strength { 26-30
26-30 Thickness { 7/8"
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 1/2" Length as per Rule 2'-5 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

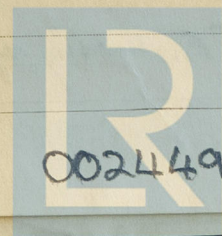
Thickness 7/8" Lower back plate: Material Steel Tensile strength 26-30 Thickness 3/4"

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

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