

REPORT ON BOILERS.

No. 17103

Received at London Office

22 SEP 1941

Date of writing Report 5/9/41 When handed in at Local Office 6/9/41 Port of Middleborough
No. in Survey held at Stockton-on-Tees Date, First Survey 25.7.41 Last Survey 29/8/1941
Reg. Book on the Stm Lybber VIC III (Number of Visits 4) Gross Tons Net Tons
Built at Thorne By whom built R. Dunston & Co Yard No. 370 When built 1941
Engines made at Yarmouth By whom made Crafts (1931) Ltd Engine No. 627 When made 1941
Boilers made at Stockton By whom made Stockton CE & Riley Bros Ltd Boiler No. 6572 When made 1941
Owners The Admiralty Port belonging to

VERTICAL DONKEY BOILER.

Made at Stockton By whom made Stockton CE & Riley Bros Ltd Boiler No. 6572 When made 1941 Where fixed
Manufacturers of Steel Steel Co of Scotland, Appleby, Woddingham Steel Co Ltd
Total Heating Surface of Boiler 198 sq ft Is forced draught fitted CR Coal or Oil fired Coal
No. and Description of Boilers 1 - Vertical Cross Tube Working pressure 120 lbs
Tested by hydraulic pressure to 230 lbs Date of test 29th August 1941 No. of Certificate 7028
Area of Firegrate in each Boiler 23.75 sq ft No. and Description of safety valves to each boiler 2 Spring loaded
Area of each set of valves per boiler per rule as fitted Pressure to which they are adjusted 120 lbs Are they fitted with easing gear Yes
State whether steam from main boilers can enter the donkey boiler Smallest distance between boiler or uptake and bunkers or woodwork 15"
Is oil fuel carried in the double bottom under boiler Smallest distance between base of boiler and tank top plating
Is the base of the boiler insulated Largest internal dia. of boiler 6'-3" Height 14'-6"
Shell plates: Material Steel Tensile strength 29-33 tons Thickness 7/16"
Are the shell plates welded or flanged No Description of riveting: circ. seams SR long. seams T.R. (Lap)
Dia. of rivet holes in 15/16" Pitch of rivets 2.156 2.142 3.02 Percentage of strength of circ. seams 56.50 of Longitudinal joint 58.20
13/16" 3.051 3.125 56.50 58.20
Working pressure of shell by rules 120 lbs Thickness of butt straps outer inner
Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Dished Material Steel
Tensile strength 26-30 tons Thickness 5/8" Radius 5'-0" (outside) Working pressure by rules 125 lbs
Description of Furnace: Plain, spherical, or dished crown Plain Material Steel Tensile strength 26-30 tons
Thickness 3/4" External diameter Length as per rule Working pressure by rules
Pitch of support stays circumferentially 24" and vertically 12" Are stays fitted with nuts or riveted over Riveted
Diameter of stays over thread 1 1/2" Radius of or dished furnace crown 5'-0" (outside) Working pressure by rule 137 lbs
Thickness of Ogee Ring Diameter as per rule Working pressure by rule
Combustion Chamber: Material Steel Tensile strength 26-30 tons Thickness of top plate 1 1/16"
Radius if dished 5'-0" Working pressure by rule Thickness of back plate Diameter if circular
Length as per rule Pitch of stays Are stays fitted with nuts or riveted over
Diameter of stays over thread Working pressure of back plate by rules
Tube Plates: Material Tensile strength Thickness Mean pitch of stay tubes in nests
If comprising shell, Dia. as per rule Pitch in outer vertical rows Dia. of tube holes FRONT BACK
Is each alternate tube in outer vertical rows a stay tube Working pressure by rules
Girders to combustion chamber tops: Material Tensile strength
Depth and thickness of girder at centre Length as per rule
Distance apart No. and pitch of stays in each Working pressure by rule

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Crown stays: Material ☒ Tensile strength ☒ Diameter ☒ at body of stay, or over threads.

No. of threads per inch ☒ Area supported by each stay ☒ Working pressure by rules ☒

Screw stays: Material *Steel* Tensile strength *26-30 tons* Diameter ☒ at turned part, or over threads *1 1/2"* No. of threads per inch *9*

Area supported by each stay ☒ Working pressure by rules ☒ Are the stays drilled at the outer ends *No*

Tubes: Material ☒ External diameter ☒ plain stay ☒ Thickness ☒

No. of threads per inch ☒ Pitch of tubes ☒ Working pressure by rules ☒

Manhole Compensation: Size of opening in shell plate *16" x 20"* Section of compensating ring *5" x 3 1/4"* No. of rivets and diameter

of rivet holes *44-15/16"* Outer row rivet pitch at ends *3 3/4"* Depth of flange if manhole flanged ☒

Uptake: External diameter *1'-11"* Thickness of uptake plate *5/8"*

Cross Tubes: No. *5* External diameters *10 1/2"* Thickness of plates *15/32"*

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with *Yes*

For and on behalf of
The foregoing is a correct description,

Geo W. H. H. H. Manufacturer.
DIRECTOR.

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - -

Is the approved plan of boiler forwarded herewith *20/5/41*
(If not state date of approval.)

Total No. of visits

Is this Boiler a duplicate of a previous case. *Yes* If so, state Vessel's name and Report No. *Hgb Rpt 47085*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This boiler has been constructed under Special Survey, in accordance with the Rule Requirements, & approved plan. The materials & workmanship are good, & on completion the boiler was tested by hydraulic pressure to 230 lb/sq in & found tight & satisfactory. This boiler is being forwarded to Messrs Richard Dunston & Sons Ltd, Thorne W.D. Doncaster for installation on 66 ft. Puffer*

Survey Fee ... £ *4 : 4 :* When applied for, *19.9.* 19*41.*

Travelling Expenses (if any) £ : : When received, 19

S. Wood & R. H. H. H.
Engineer Surveyor Lloyd's Register of Shipping

Committee's Minute

TUE 17 FEB 1942

Assigned

See minute on Hull F.E



Lloyd's Register
Foundation