

REPORT ON BOILERS.

No. 17127

Received at London Office

Date of writing Report 14/10/41 When handed in at Local Office 17/10/41 Port of Middlesbrough

No. in Survey held at Stockton-on-Tees Date, First Survey 11th June Last Survey 14/10/41
Reg. Book on the New Lyke WNC 4 (Number of Visits 11) Gross 96
Tons Net 41Built at Thorne By whom built R. D. Dwyer & Co. Yard No. 372 When built 1942-2
By whom made Crabtree (4001) Lⁿ Engine No. 629 When made 46
Stockton By whom made Stockton B. Engine Works Boiler No. 6574 When made 1941
The Ministry of War Transport Port belonging to "11-1"

L DONKEY BOILER.

By whom made Stockton C. E. & R. B. Lⁿ Boiler No. 6574 When made 1941 Where fixed
of Steel Steel Co. of Scotland, Appleby-Wharfedale Steel Works
Surface of Boiler 198 1/4 Is forced draught fitted No Coal or Oil fired Coal
ption of Boilers 1- Vertical cross tube Working pressure 120 lbs
culic pressure to 230 lbs. Date of test 14/10/41 No. of Certificate 7034
ate in each Boiler 23-45 1/4 No. and Description of safety valves to each boiler 2 - 110 lb. Spirit loaded.
t of valves per boiler { per rule 4.94 Pressure to which they are adjusted 120 lbs. Are they fitted with easing gear No.
as fitted 9.82
eam from main boilers can enter the donkey boiler 16 1/4
Is oil fuel carried in the double bottom under boiler No Smallest distance between boiler or uptake and bunkers
Is the base of the boiler insulated No Largest internal dia. of boiler 6'-3" Height 14'-6"
Material Steel Tensile strength 29-33 tons Thickness 7/16"
ates welded or flanged No Description of riveting: circ. seams SR long. seams T.R. (Top)
es in { circ. seams 15/16" 2-56 2-19 2-3-82 Boiler 56.00 plate 43.30
{ long. seams 13/16" 3-05 3-25 58.20 rivets 62.35
ure of shell by rules 120 lbs Thickness of butt straps { outer
inner
Whether complete hemisphere, dished partial spherical, or flat Dished Material Steel
h 26-30 tons Thickness 5/8" Radius 5'-0" (outside) Working pressure by rules 125 lbs
Furnace: Plain, spherical, or dished crown Plain Material Steel Tensile strength 26-30 tons
14" External diameter { top Length as per rule Working pressure by rules
Max. 24" Min. (on shell) 12" and vertically
ort stays circumferentially 24" 12" Are stays fitted with nuts or riveted over Riveted
ays over thread 1 1/2" Radius of spherical or dished furnace crown 5'-0" Working pressure by rule 137 lbs.
gee Ring Diameter as per rule { D Working pressure by rule
a
hamber: Material Steel Tensile strength 26-30 tons Thickness of top plate 11/16"
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 { front Tensile strength Thickness Mean pitch of stay tubes in nests
back
If comprising shell, Dia. as per rule { front Pitch in outer vertical rows Dia. of tube holes FRONT { stay BACK { stay
back plain plain
Is each alternate tube in outer vertical rows a stay tube Working pressure by rules { front
back
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

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 ☒ Tensile strength ☒ Diameter ☒ at turned off part, or over threads ☒ No. of threads per inch ☒
Area supported by each stay ☒ Working pressure by rules ☒ Are the stays drilled at the outer ends ☒
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 16×20 Section of compensating ring $5 \times 3/4$ 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 ☒

The foregoing is a correct description,

STOCKTON CHEMICAL ENGINEERS & RILEY BOILERS LTD.

Manufacturer.

DIRECTOR.

Dates of Survey: During progress of work in shops - June 11, July 4, 9, 14, 25, Aug. 4, 22, Sept. 8, 10, 1926. Is the approved plan of boiler forwarded herewith (If not state date of approval.) ☒
while building: During erection on board vessel - - - - - Total No. of visits $11 - 00$

Is this Boiler a duplicate of a previous case ☒ If so, state Vessel's name and Report No. $Indo Apr No 17113$

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, and on completion the boiler was tested by hydraulic pressure to 230 lbs, & found tight & satisfactory. This boiler is being forwarded to Messrs Richard Dunston & Sons Ltd, Thorne, W. Doncaster for installation in 66 ft Puffer.

Survey Fee ... £ $4 : 4 :$ When applied for, $23/10/1926$
Travelling Expenses (if any) £ : : When received, 19

R. J. Easthope
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 12 MAR 1942

Assigned

Not for Classification
See H.L. 51526
Committee



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Foundation