

RECEIVED
Rpt. 5b.
1.2 MAY 1945

London Report No. 112,944

REPORT ON BOILERS.

No. 17848

Received at London Office 14 MAY 1945

Date of writing Report 4th May 1945. When handed in at Local Office 11th May, 1945. Port of Middlebrough.

No. in Survey held at Stickle. n. Seas. Date, First Survey 6th June 1944. Last Survey 25th April 1945 (29 JUNE 1945)
Reg. Book Stickle. n. Seas. (Number of Visits 20) Tons { Gross
Net

On the Sham Coastal Light - "VIC 101"

Built at Lourestoft By whom built Richmond Ironworks Ltd. Yard No. 356 When built 1945.

Engines made at Great Yarmouth. By whom made Wm Crabtree (1931) Ltd. Engine No. 683 When made 1940.
697

Boilers made at Stickle. n. Seas. By whom made Stickle. C.E. & Riley Boilers Ltd. Boiler No. 6857. When made 1945.

Owners Ministry of War Transport Port belonging to Lourestoft.

VERTICAL DONKEY BOILER.

Made at Stickle By whom made Stickle C.E. & R. n. Seas. Boiler No. 6857. When made 1945 Where fixed Engine Room

Manufacturers of Steel Appley Roddinson Steel Co. Ltd.

Total Heating Surface of Boiler 525 sq ft Is forced draught fitted no Coal or Oil fired Coal

No. and Description of Boilers 1 Vertical Multitubular Working pressure 120 lbs sq in

Tested by hydraulic pressure to 230 lbs Date of test 1/5/45 No. of Certificate 7/42

Area of Firegrate in each Boiler 25 sq ft No. and Description of safety valves to each boiler 1-2" C.I. Double

Area of each set of valves per boiler { per rule 4.56 Pressure to which they are adjusted 120 lbs Are they fitted with easing gear no
as fitted 6.28

State whether steam from main boilers can enter the donkey boiler no Smallest distance between boiler or uptake and bunkers or woodwork 15" Is oil fuel carried in the double bottom under boiler no Smallest distance between base of boiler and tank top plating 6" Is the base of the boiler insulated no Largest internal dia. of boiler 6'-6 5/16" Height 14'-6"

Shell plates: Material Steel Tensile strength 28-32 Thickness { upper 9/16" lower 1/2"

Are the shell plates welded or flanged no Description of riveting: circ. seams { and S.R. Lap. long. seams DR. D.B.S.
inter. DR.

Dia. of rivet holes in { circ. seams 15/16" Pitch of rivets { upper 2-1/2" lower 2-8/16" Percentage of strength of circ. seams { plate 56.1 of Longitudinal joint { plate 74
long. seams 13/16" rivets 47.2 rivets 109
combined 105

Working pressure of shell by rules 125 lbs sq in Thickness of butt straps { outer 3/8" inner 7/16"

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat yes Material Steel

Tensile strength 26-30 Thickness 27/32" Radius 6'-0" Working pressure by rules 121 lbs

Description of Furnace: Plain, spherical, or dished crown yes Material Steel Tensile strength 26-30

Thickness 25/32" External diameter { top 5'-10" Length as per rule 2'-9" Working pressure by rules 149 lbs
bottom 5'-10"

Pitch of support stays circumferentially yes and vertically yes Are stays fitted with nuts or riveted over yes

Diameter of stays over thread yes Radius of spherical or dished furnace crown 4'-0 27/32" Working pressure by rule 135 lbs

Thickness of Ogee Ring 25/32" Diameter as per rule { D 6'-6" Working pressure by rule 129 lbs
d 5'-10"

Combustion Chamber: Material Steel Tensile strength 26-30 Thickness of top plate 21/32"

Radius if dished yes Working pressure by rule 127 lbs Thickness of back plate 21/32" Diameter if circular yes

Length as per rule yes Pitch of stays 9 1/2" x 8 1/2" Are stays fitted with nuts or riveted over Riveted over

Diameter of stays over thread 13/8" Working pressure of back plate by rules 123 lbs

Tube Plates: Material { front Steel Tensile strength { 26-30 Thickness { 1 1/16" Mean pitch of stay tubes in nests 10 1/8"
back Steel

If comprising shell, Dia. as per rule { front 6'-4" Pitch in outer vertical rows { 7" Dia. of tube holes FRONT { stay 2 1/2" BACK { stay 2 1/4"
back 6'-4" plain 2 5/16" plain 2 1/4"

Is each alternate tube in outer vertical rows a stay tube yes Working pressure by rules { front 125.6 lbs back 116.8 lbs

Girders to combustion chamber tops: Material Steel Tensile strength 28-32

Depth and thickness of girder at centre 5 1/4" 7/16" Length as per rule 1'-10 3/16"

Distance apart 55/8" No. and pitch of stays in each yes Working pressure by rule 125 lbs sq in

© 2021
Lloyd's Register
005774005790-0078

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 Diameter { at turned off part, or over threads. 1 3/8" No. of threads per inch 9
 Area supported by each stay 80.750 Working pressure by rules 125.6 Are the stays drilled at the outer ends No.
Tubes: Material Hot-rolled welded steel External diameter { plain 2 1/4" stay 2 1/4" Thickness { 104.9 9/16"
 No. of threads per inch 9 Pitch of tubes 3 1/2" - 3 1/4" Working pressure by rules 190 lb.
Manhole Compensation: Size of opening in shell plate 16" x 12" Section of compensating ring NONE No. of rivets and diameter of rivet holes Outer row rivet pitch at ends Depth of flange if manhole flanged 3 1/2"
Uptake: External diameter Thickness of uptake plate
Cross Tubes: No. External diameters { Thickness of plates

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with

for and on behalf of
 The foregoing is a correct description,
G. N. Riley Manufacturer.
 DIRECTOR.

Dates of Survey while building { During progress of work in shops - 1944 June 6. 12. 20. 28. July 3. 12. 20 Aug 2. 9. 16. 25. 30. Sept. 8. 21. Oct. 5. 13. 19. 25. Nov. 2. 9. 16. 21. 28. Dec. 6. 14. 21. 29. 1945 Jan. 12. 23. Feb. 1. 15. 22. Mar. 1. 6. 13. 23. 28 Is the approved plan of boiler forwarded herewith 25/5/44 (If not state date of approval.)
 { During erection on board vessel - - April 6, 13, 25. May 1 Total No. of visits 59 40

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 hydrostatically tested to 220 lb sq in & found satisfactory.
 This boiler is being forwarded to Messrs Richards Ironworks Ltd - Lowestoft for their Yard No. 356.

The Boiler has now been efficiently installed on board
 "VIC 101"
 J. J. J.

Survey Fee £ 4 : 4 : } When applied for, 11/5/1945
 Travelling Expenses (if any) £ : : } When received, 19

G. N. Riley
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute 21. 20 JUL 1945
 Assigned See F.E. machy. opt

