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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 Middleborough
No. in Survey held at Stikla. n. Ius. Date, First Survey 6th June 1944 Last Survey 25th April 1945
Reg. Book on the Sham Coastal Light "VIC 101"
(Number of Visits 20) Gross Tons 29 Net Tons 29
Built at Louestoft By whom built Richmond Ironworks Ltd. Yard No. 356 When built 1945
Engines made at Great Yarmouth By whom made Henry Crabtree (1931) Ltd. Engine No. 683 When made 1940
Boilers made at Stikla. n. Ius. By whom made Stikla. C.E. & Riley Builders Ltd. Boiler No. 6857 When made 1945
Owners Ministry of War Transport Port belonging to Louestoft

VERTICAL DONKEY BOILER.

Made at Stikla By whom made Stikla C.E. & R. Ius. Ltd. Boiler No. 6857 When made 1945 Where fixed Engine Room
Manufacturers of Steel Appleby Frodingham 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 as fitted 6.28 Pressure to which they are adjusted 120 lbs Are they fitted with easing gear no
State whether steam from main boilers can enter the donkey boiler yes 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 7/32"
Are the shell plates welded or flanged no Description of riveting: circ. seams { and S.R. Lap. inter. D.R. long. seams D.R. D.B.S.
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 rivets 47.2 of Longitudinal joint { plate 74 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" bottom 5'-10" Length as per rule 2'-9" Working pressure by rules 149 lbs
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" d 5'-10" Working pressure by rule 129 lbs
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 back Steel Tensile strength { 26-30 Thickness { 1 1/16" 21/32" Mean pitch of stay tubes in nests 10 1/8"
If comprising shell, Dia. as per rule { front 6'-4" back 6'-4" Pitch in outer vertical rows { 7" 7" Dia. of tube holes FRONT { stay 2 1/2" plain 2 5/16" BACK { stay 2 1/4" 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 118 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 1/8" No. and pitch of stays in each yes Working pressure by rule 125 lbs/sq in

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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 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" Thickness 104.9 stay 2 1/4" 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 3 1/2"

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

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, 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 39 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 hydraulically tested to 220 lb p.s.i. & found satisfactory.

This boiler is being forwarded to Messrs Richards Ironworks Ltd. - Lowestoft for their Job No. 356.

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

Weymouth.

Survey Fee ... £ 4 : 4 : } When applied for, 11/5/1945

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

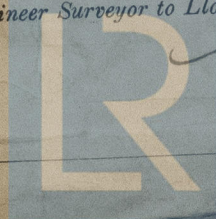
G. N. Riley
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

21. 20 JUL 1945

Assigned

See F.E. machy. opt.



Lloyd's Register
Foundation