

REPORT ON BOILERS.

No. 18106

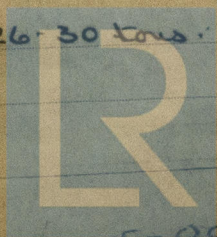
JAN 16 1941.

Received at London Office

Writing Report 14/1/1941 When handed in at Local Office 14/1/41 19 Port of West Hartlepool
 Date, First Survey 21st November, 1940 Last Survey 10th January 1941
 (Number of Visits 12) Tons { Gross
 Net
 SS on the S.S. AUDACITY
 By whom built
 By whom made
 By whom made
 By whom made Central Marine Engine Works Boiler No. 338 When made 1941.
 Owners J. J. Edward & Sons, Ltd. Port belonging to London
 Horse Power 140.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Messrs. Bolivilles & Co. (Letter for Record S.)
 Heating Surface of Boilers 2111 sq ft Is forced draught fitted No. Coal or Oil fired Coal
 and Description of Boilers One single ended multitubular Working Pressure 180 lbs.
 tested by hydraulic pressure to 320 lbs. Date of test 10-1-41. No. of Certificate 3925. Can each boiler be worked separately Yes
 of Firegrate in each Boiler 60.18 sq ft No. and Description of safety valves to each boiler 2-3" spring loaded.
 of each set of valves per boiler { per Rule 13.53 A" Pressure to which they are adjusted 180 lbs. Are they fitted with easing gear yes.
 as fitted 14.137 A"
 use of donkey boilers, state whether steam from main boilers can enter the donkey boiler No
 least distance between boilers or uptakes and bunkers or woodwork 7 3/4" Is oil fuel carried in the double bottom under boilers no
 least distance between shell of boiler and tank top plating 7 3/4" Is the bottom of the boiler insulated yes.
 greatest internal dia. of boilers 15'-0" Length 10'-6" Shell plates: Material Steel Tensile strength 29-33 tons
 thickness 1 3/16" Are the shell plates welded or flanged No Description of riveting: circ. seams { end D.R. LAP.
 { inter. 3 3/8"
 seams T.R. Double butts. Diameter of rivet holes in { circ. seams 1 1/4"
 { long. seams 1 1/4" Pitch of rivets { 8 3/4"
 percentage of strength of circ. end seams { plate 68.8%
 { rivets 42.2% Percentage of strength of circ. intermediate seam { plate —
 { rivets —
 percentage of strength of longitudinal joint { plate 85.6%
 { rivets 87.8%
 { combined 89%
 thickness of butt straps { outer 1 5/16"
 { inner 1 1/16" No. and Description of Furnaces in each Boiler 3. Deighton section.
 Material Steel Tensile strength 26-30 tons Smallest outside diameter 3'-7"
 length of plain part { top — Thickness of plates { crown 3 9/16"
 { bottom — { bottom 3 1/16" Description of longitudinal joint welded.
 dimensions of stiffening rings on furnace or c.c. bottom —
 and plates in steam space: Material Steel Tensile strength 26-30 tons Thickness 1 1/4" Pitch of stays 20" x 20"
 how are stays secured Double nuts.
 be plates: Material { front Steel Tensile strength { 26-30 tons
 { back Steel { 26-30 tons Thickness { 1 5/16"
 { 1 3/16"
 can pitch of stay tubes in nests 11 1/8" Pitch across wide water spaces 14 1/4"
 doors to combustion chamber tops: Material Steel Tensile strength 28-32 tons Depth and thickness of girder
 centre 6 3/4" x 1 1/2" 2 3/4" plates length as per Rule 2'-5 1/2" Distance apart 7 3/4" No. and pitch of stays
 each 2 @ 10 1/4"
 tensile strength 26-30 tons Thickness: Sides 2 1/32" Back 2 1/32" Top 2 1/32" Bottom 2 1/32"
 pitch of stays to ditto: Sides 10 1/4" x 7 3/4" Back 9 1/2" x 8 1/2" Top 10 1/4" x 7 3/4" Are stays fitted with nuts or riveted over Nuts
 front plate at bottom: Material Steel Tensile strength 26-30 tons
 thickness 1 5/16" Lower back plate: Material Steel Tensile strength 26-30 tons Thickness 1 3/16"
 pitch of stays at wide water space 14 1/4" x 8 1/2" Are stays fitted with nuts or riveted over Nuts.
 main stays: Material Steel Tensile strength 28-32 tons
 diameter { At body of stay, 3 1/8"
 { Over threads No. of threads per inch 6.
 crew stays: Material Steel Tensile strength 26-30 tons
 diameter { At turned off part, 1 5/8" 1 3/4" 2 1/8"
 { Over threads No. of threads per inch 9.



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Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, or Over threads 1 1/2"
No. of threads per inch 9
Tubes: Material Steel External diameter { Plain 3 1/4" Thickness { 9 15WG No. of threads per inch 9
Stay 3 1/4" 5 1/16" 5 1/16"
Pitch of tubes H 3/8" x H 1/2" Manhole compensation: Size of opening —
end shell plate 16" x 12" Section of compensating ring — No. of rivets and diameter of rivet holes —
Outer row rivet pitch at ends — Depth of flange if manhole flanged 3 7/8" of 3 3/8" Bolt Steam Dome Material None
Tensile strength — Thickness of shell — Description of longitudinal joint —
Diameter of rivet holes — Pitch of rivets — Percentage of strength of joint { Plate Rivets —
Internal diameter — Thickness of crown — No. and diameter of stays —
Inner radius of crown —
How connected to shell — Size of doubling plate under dome — Diameter of rivet holes and of rivets in outer row in dome connection to shell —

Type of Superheater None Manufacturers of { Tubes — Steel forgings — Steel castings —
Number of elements — Material of tubes — Internal diameter and thickness of tubes —
Material of headers — Tensile strength — Thickness — Can the superheater be shut off from the boiler —
the boiler be worked separately — Is a safety valve fitted to every part of the superheater which can be shut off from the boiler —
Area of each safety valve — Are the safety valves fitted with easing gear —
Pressure to which the safety valves are adjusted — Hydraulic test pressure —
tubes — forgings and castings — and after assembly in place — Are drain valves fitted to free the superheater from water where necessary —

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes
The foregoing is a correct description, FOR THE CENTRAL MARINE ENGINE WORKS, (All. Eng. & Co. 32) Manufactured by W. H. G. & Co. GENERAL MANAGER

Dates of Survey { During progress of work in shops - - 1940. Nov. 21-29. Dec. 3-5-16-17-19-23-30. Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
while building { During erection on board vessel - - - 1941. Jan. 2-9-10. Total No. of visits 12

Is this Boiler a duplicate of a previous case — If so, state Vessel's name and Report No. —

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under special survey and in accordance with the approved plans for a working pressure of 180 lbs. The materials and workmanship have been found good. Upon completion the boiler was tested in the presence of the undersigned by a hydraulic pressure of 320 lbs per square inch, showed no signs of weakness and was found sound and tight in every respect at that pressure.

The boiler is being despatched to London for fitting on board.

London:- This boiler has now been securely fitted on board vessel, under special survey. Boiler examined under steam and its safety valves adjusted to 180 lbs. Accumulation test carried out and all found in order. This boiler together with the machinery of this vessel is eligible in my opinion to be classed LMC 4-41.

Survey Fee ... £ 14 : 0 : 0 When applied for, 14/11 1941
Travelling Expenses (if any) £ : : When received, 19

Committee's Minute — FRI. 15 AUG 1941
Assigned See Lon. Rpt. 109781
Arthur W. Oxford, Engineer Surveyor to Lloyd's Register of Shipping

