

REPORT ON BOILERS.

No. 18455

14.15. - SEP 1943

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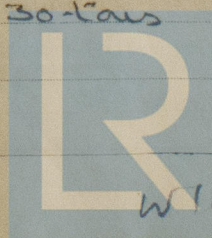
Date of writing Report 1st Sept. 1943. When handed in at Local Office 2nd Sept. 1943. Port of WEST HARTLEPOOL

No. in Reg. Book. Survey held at WEST HARTLEPOOL Date, First Survey 15th July. Last Survey 31st August 1943.
on the Single Screw "GULLANO" J2717 (Number of Visits 11) Gross 452 Tons Net 144

Built at Berwick By whom built Cook Wotton & Gemmell Ltd. Yard No. 719 When built 1943
Engines made at HULL By whom made MESS^{rs} C.D. HOLMES & CO. Engine No. 1659 When made 1656
Boilers made at WEST HARTLEPOOL By whom made CENTRAL MARINE ENGINE WORKS Boiler No. R364 When made 1943
Nominal Horse Power Owners Admiralty Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Mess^{rs} Colvilles, Ltd. Glasgow. (Letter for Record S.
Total Heating Surface of Boilers 2650 sq. Is forced draught fitted Yes. Coal or Oil fired COAL
No. and Description of Boilers One single ended multitubular Working Pressure 200 lbs.
Tested by hydraulic pressure to 350 lbs. Date of test 31-8-43 No. of Certificate H.008 Can each boiler be worked separately
Area of Firegrate in each Boiler 63.36 sq. No. and Description of safety valves to each boiler Two ordinary
Area of each set of valves per boiler {per Rule 15.4 sq. as fitted 16.6 sq. Pressure to which they are adjusted 203 lb. Are they fitted with easing gear Yes
In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler
Smallest distance between boilers or uptakes and bunkers or woodwork 2'-0" Is oil fuel carried in the double bottom under boilers NONE
Smallest distance between shell of boiler and tank top plating NONE Is the bottom of the boiler insulated NO
Largest internal dia. of boilers 14'-9 3/8" Length 11'-6" Shell plates: Material Steel Tensile strength 29-33 tons D.R. LAP.
Thickness 1 5/16" Are the shell plates welded or flanged C/W. Description of riveting: circ. seams {end 4" inter. 9 1/2"
Long. seams T.R. Double butt straps Diameter of rivet holes in {circ. seams 1 3/8" long. seams 1 3/8" Pitch of rivets {
Percentage of strength of circ. end seams {plate 65.6 rivets 44.9 Percentage of strength of circ. intermediate seam {plate rivets
Percentage of strength of longitudinal joint {plate 85.52 rivets 88.54 combined 88.77
Thickness of butt straps {outer 1 1/8" inner 1 1/8" No. and Description of Furnaces in each Boiler 3 Corrugated Deighton section
Material Steel Tensile strength 26-30 tons Smallest outside diameter 3'-6 1/16"
Length of plain part {top Thickness of plates {front 1 9/32" bottom 1 1/2" Description of longitudinal joint Welded.
Dimensions of stiffening rings on furnace or c.c. bottom
End plates in steam space: Material Steel Tensile strength 26-30 tons Thickness 1 1/32" Pitch of stays 21 x 20"
How are stays secured Double nuts.
Tube plates: Material {front Steel Tensile strength {26-30 tons Thickness 7/8" 2 5/32" back Steel 26-30 tons
Mean pitch of stay tubes in nests 11 5/8 x 7 3/4" Pitch across wide water spaces 13 5/8"
Girders to combustion chamber tops: Material Steel Tensile strength 28-32 tons Depth and thickness of girder at centre 8 1/4 x 1 3/8, 2-1/16 plates length as per Rule 2'-6 3/4" Distance apart 10 3/4" No. and pitch of stays in each 2 @ 9 1/2"
Combustion chamber plates: Material Steel Tensile strength 26-30 tons Thickness: Sides 2 5/32" Back 3/4" Top 2 5/32" Bottom 2 5/32"
Pitch of stays to ditto: Sides 10 3/4 x 9 3/8 Back 9 3/8 x 9 1/2 Top 10 3/4 x 9 1/2 Are stays fitted with nuts or riveted over C/W nuts
Front plate at bottom: Material Steel Tensile strength 26-30 tons Thickness 7/8"
Lower back plate: Material Steel Tensile strength 26-30 tons Thickness 7/8"
Pitch of stays at wide water space 14 1/2 x 9 3/8 Are stays fitted with nuts or riveted over C/W nuts
Main stays: Material Steel Tensile strength 28-32 tons
Diameter {At body of stay 3 3/16" or Over threads No. of threads per inch 6
Screw stays: Material Steel Tensile strength 26-30 tons
Diameter {At turned off part 1 3/8" or 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, 2" or Over threads }
No. of threads per inch 9
Tubes: Material HRWS. External diameter { Plain 2 3/4" Stay 2 3/4" } Thickness { 3/16" 5/16" } No. of threads per inch 9
Pitch of tubes 3 1/8 x 3 1/8 Manhole compensation: Size of opening in shell plate 20 x 16 Section of compensating ring 2-11 1/2 x 2-7 1/2 x 1 5/16 o. of rivets and diameter of rivet holes 32 @ 1 5/32
Outer row rivet pitch at ends 10 1/8 Depth of flange if manhole flanged 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
How connected to shell Inner radius of crown
Size of doubling plate under dome Diameter of rivet holes and pitch 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 and 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 cocks or 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,

FURTHER INFORMATION
FOR THE CENTRAL MARINE ENGINE WORKS

Manufacturer.

Dates of Survey { During progress of work in shops - - July 15, 21, 26 Aug. 11, 16, 20, 24, 25 } Are the approved plans of boiler and fittings complete and in accordance with 25-5-43.
(If not state date of approval.)
while building { During erection on board vessel - - 26, 27, 31 } Total No. of visits 11
Sept 4.

Is this Boiler a duplicate of a previous case Yes. If so, state Vessel's name and Report No. R363 Rpx 18443.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey and in accordance with the approved plans for a working pressure of 200 lbs per square inch. 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 350 lbs per square inch, showed no signs of weakness and was found tight and sound in every respect at that pressure. This boiler is being despatched to Hull for fitting on board.

The above boiler fitted on board HMT "GULLAND" at Hull, examined under working conditions, safety valves adjusted to 20 3/16, accumulation test held and afterwards examined after all tests found satisfactory.

W. S. Shuler

Survey Fee ... £ 17 : 14 : 0 When applied for, 2nd Sept. 1943.

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

Supervision of Specification. See Mch. Rpt.

Arthur W. Osford
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 19 NOV 1943

Assigned

See fe machy rpt.



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