

REPORT ON BOILERS.

No. 2855.

Received at London Office 25 DEC 1941

Date of writing Report 17.12.41 When handed in at Local Office 10 Port of Barrow.

Survey held at Barrow. Date, First Survey 16.10.41 Last Survey 12.11.1941

on the 7. "EMPIRE BAXTER". (Number of Visits 13.) Tons { Gross 7023.65 Net 5052.10

Master Built at Barrow. By whom built Vickers Armstrongs Ltd No. 787 When built 1941

Engines made at Glasgow. By whom made Barclay Curle & Co. Engine No. 133 When made 1941

Boilers made at Grimsby. By whom made J. G. Kneeland & Co Ltd Boiler No. 249 When made 1941

Nominal Horse Power 516 Owners Ministry of Shipping. Port belonging to Barrow.

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Total Heating Surface of Boilers

No. and Description of Boilers

Tested by hydraulic pressure to Date of test No. of Certificate Can each boiler be worked separately

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler

Area of each set of valves per boiler { per Rule as fitted Pressure to which they are adjusted 225 lb Are they fitted with easing gear 7/8

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' 1/2" Is oil fuel carried in the double bottom under boilers No

Smallest distance between shell of boiler and tank top plating 3' 6 1/2" Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers Length Shell plates: Material Tensile strength

Thickness Are the shell plates welded or flanged Description of riveting: circ. seams { end inter.

Percentage of strength of circ. end seams { plate rivets Percentage of strength of circ. intermediate seam { plate rivets

Percentage of strength of longitudinal joint { plate rivets combined Working pressure of shell by Rules

Thickness of butt straps { outer inner No. and Description of Furnaces in each Boiler

Material Tensile strength Smallest outside diameter

Length of plain part { top bottom Thickness of plates { crown bottom Description of longitudinal joint

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules

Stays and plates in steam space: Material Tensile strength Thickness Pitch of stays

How are stays secured Working pressure by Rules

End plates: Material { front back Tensile strength Thickness

Can pitch of stay tubes in nests Pitch across wide water spaces Working pressure { front back

Orders to combustion chamber tops: Material Tensile strength Depth and thickness of girder

centre Length as per Rule Distance apart No. and pitch of stays

each Working pressure by Rules Combustion chamber plates: Material

Tensile strength Thickness: Sides Back Top Bottom

Pitch of stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over

Working pressure by Rules Front plate at bottom: Material Tensile strength

Thickness Lower back plate: Material Tensile strength Thickness

Pitch of stays at wide water space Are stays fitted with nuts or riveted over

Working Pressure Main stays: Material Tensile strength

At body of stay, No. of threads per inch Area supported by each stay

Over threads

Working pressure by Rules Screw stays: Material Tensile strength

At turned off part, No. of threads per inch Area supported by each stay

Over threads

Working pressure by Rules Are the stays drilled at the outer ends Margin stays : Diameter { At turned off part, or Over threads
No. of threads per inch Area supported by each stay Working pressure by Rules
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
Section of compensating ring No. of rivets and diameter of rivet holes
Outer row rivet pitch at ends Depth of flange if manhole flanged Steam Dome : Material
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 Working pressure by Rules Thickness of crown No. and diameter of stays
Inner radius of crown Working pressure by Rules
How connected to shell 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

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 Working pressure as per Rules
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

The foregoing is a correct description,
For VICKERS-ARMSTRONGS LIMITED,
Manufacturer.

Dates of Survey { During progress of work in shops - - } 1941 Oct 16 17 20 25 31. Nov 3 15 19 26 27
while building { During erection on board vessel - - } Dec. 10 11 12
Are the approved plans of boiler and superheater forwarded herewith 7. 3. 41.
(If not state date of approval.)
Total No. of visits 13.

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This boiler has been efficiently installed in board in accordance with Rule requirements & approved plans. The safety valves have been adjusted under steam as above.

Survey Fee See Memorandum kept
Travelling Expenses (if any) £ : : When applied for, 19
When received, 19

McWilliam
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 9 JAN 1942

Assigned

See J. E. Mackay rpl.



© 2021

Lloyd's Register
Foundation