

REPORT ON BOILERS.

No. 14268.

Received at London Office

17 JUN 1942

Writing Report 15/6/42 When handed in at Local Office 15/6/42 Port of Middlesbrough.

in Survey held at Stockton-on-Tees Date, First Survey 21st April Last Survey 10th June, 1942.

of the M.V. "LAMBROOK" (Number of Visits four) Tons {Gross Net

at Burntisland By whom built Burntisland S.B. Co. Ltd. Yard No. 260 When built 1942.

nes made at Sunderland By whom made W. Doxford & Son Ltd. Engine No. 224E When made

ers made at Stockton-on-Tees By whom made Stockton Chem. Eng. & Riley Bros Ltd. Boiler No. 6624 When made 1942

inal Horse Power Owners Port belonging to LONDON.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Appledy - Frodingham Steel Co. Ltd. (Letter for Record S.)

al Heating Surface of Boilers 1660 sq. ft. Is forced draught fitted Coal or Oil fired

and Description of Boilers One Single Ended Marine. Working Pressure 120 lbs.

ted by hydraulic pressure to 230 Date of test 10-6-42 No. of Certificate 7048 Can each boiler be worked separately

ea of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 - Spring

ea of each set of valves per boiler {per Rule 15.37 Pressure to which they are adjusted 120 lbs. Are they fitted with easing gear Yes.

case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

allest distance between boilers or uptakes and bunkers or woodwork Fitted in two ends Is oil fuel carried in the double bottom under boilers

allest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated Yes.

rgest internal dia. of boilers 11'-10 7/8" Length 11'-6" Shell plates: Material Steel Tensile strength 29/33

ickness 1 1/16" Are the shell plates welded or flanged No Description of riveting: circ. seams DR

g. seams TRAPS Diameter of rivet holes in {circ. seams 1 1/16" Pitch of rivets {3 3/8"

percentage of strength of circ. end seams {plate 68.57 rivets 45.45 60.65 Percentage of strength of circ. intermediate seam {plate 84.88 rivets 83.38 104.3

percentage of strength of longitudinal joint {plate 84.88 rivets 83.38 104.3 combined 90.62 91.6

ickness of butt straps {outer 9/16" inner 1 1/16" No. and Description of Furnaces in each Boiler Two. Corrugated (Reighton)

aterial Steel Tensile strength 26/30 Smallest outside diameter 3'-8 1/16"

ength of plain part {top 1 bottom 1 Thickness of plates {crown 13/32" Description of longitudinal joint Weld

imensions of stiffening rings on furnace or c.c. bottom

nd plates in steam space: Material Steel Tensile strength 26/30 Thickness 27/32" Pitch of stays 17" x 16"

ow are stays secured D. nuts + washers.

ube plates: Material {front Steel back Steel Tensile strength {24/30 Thickness {27/32" 13/16"

lean pitch of stay tubes in nests 9 7/8" Pitch across wide water spaces 14"

rders to combustion chamber tops: Material Steel Tensile strength 28/32 Depth and thickness of girder

t centre 7" 2'-5 7/8" Length as per Rule 29 1/16" Distance apart 9" No. and pitch of stays

a each 2 - 9" Combustion chamber plates: Material Steel

ensile strength 26/30 Thickness: Sides 19/32" Back 9/16" Top 19/32" Bottom 7/8"

itch of stays to ditto: Sides 9'-10" Back 9 1/2' - 8 3/4" Top 9'-9" Are stays fitted with nuts or riveted over Nuts

ront plate at bottom: Material Steel Tensile strength 26/30

Thickness 27/32" Lower back plate: Material Steel Tensile strength 26/30 Thickness 27/32"

Pitch of stays at wide water space 13 1/2' x 9 1/2" Are stays fitted with nuts or riveted over Nuts

ain stays: Material Steel Tensile strength 28/32

Diameter {At body of stay, 2 1/4" No. of threads per inch 6

Over threads 2 1/4"

Screw stays: Material Steel Tensile strength 26/30

Diameter {At turned off part, 1 1/2' x 1 5/8" No. of threads per inch 9

Over threads 1 1/2' x 1 5/8"

Are the stays drilled at the outer ends No Margin stays: Diameter At turned off part, 1 7/8"
No. of threads per inch 9
Tubes: Material L.W. Iron External diameter Plain 2 3/4" Thickness 8 W.G. 5/16" No. of threads per inch 9
Pitch of tubes 3 3/4" x 3 3/4" Manhole compensation: Size of opening 16" x 20" Section of compensating ring 7" x 1" No. of rivets and diameter of rivet holes 44 1 7/16"
Outer row rivet pitch at ends 6 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
Internal diameter _____ Thickness of crown _____ Rivets _____
stays _____ Inner radius of crown _____ No. and diameter of rivets in outer row in dome connection to shell _____
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

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 _____
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 _____
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 _____

For and on behalf of
STOCKTON CHEMICAL ENGINEERS & RILEY BOILERS LTD.
The foregoing is a correct description,
Manufactured by _____

Dates of Survey During progress of work in shops - 1943, Apr. 21, May 15, June 2, 10. Are the approved plans of boiler and superheater forwarded herewith 22/10/43
while building During erection on board vessel - - - (If not state date of approval.)
Total No. of visits 4

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. MDB 17265.

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

The Boiler has been constructed under Special Survey & in accordance with the Rule Requirements & approved Plans.
The Materials & Workmanship are good & on completion the boiler was hydrostatically tested to 230 lb/sq. in. & found satisfactory.
This boiler has been forwarded to Sunderland.

This boiler has been efficiently fitted on board and the safety valves adjusted to 120 lb/sq. in.
J. J. Campbell.

Survey Fee £ 11 : 2 : - When applied for, 15/6/1942.
Travelling Expenses (if any) £ : : When received, 19

ShBod

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI, 25 SEP 1942

Assigned

See Lib. J.C. 20771



© 2021

Lloyd's Register
Foundation