

5d. 1950

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REPORT ON BOILERS.

No. 19178.

Received at London Office.

23 AUG 1950

of writing Report. 22-8-1950 When handed in at Local Office. 22-8-1950 Port of WEST HARTLEPOOL

Survey held at WEST HARTLEPOOL Date First Survey 4th April, Last Survey 17th August, 1950.

Book. M.V. BRITISH LADY. (Number of Visits. 10) Tons { Gross. Net.

on the SMITHS DOCK COS YARD NO 1211 Built at MIDDLESBROUGH By whom built SMITHS DOCK CO LTD Yard No. 1211 When built 1950

nes made at NEWCASTLE By whom made HAWTHORN LESLIE & CO Engine No. 4072 When made 1950

rs made at WEST HARTLEPOOL By whom made CENTRAL MARINE ENGINE WORKS Boiler No. R.402 When made 1950

inal Horse Power. Owners. Port belonging to.

LTITUBULAR BOILERS ~~MAIN~~, AUXILIARY, OR ~~DONKEY~~.

ufacturers of Steel. Appleby Fodderingham S. Co. (Letter for Record. 5.)

il Heating Surface of Boilers. 4000 sq. ft. 2 @ 2000 Is forced draught fitted. Yes. Coal or Oil fired. Exhaust gas

and Description of Boilers. 2 Multitubular Working Pressure 150 lb/sq. in.

ed by hydraulic pressure to 275 lb/sq. in. Date of test. 7/2/50 No. of Certificate. 4138 Can each boiler be worked separately. Yes.

a of Firegrate in each Boiler. No. and Description of safety valves to each boiler. 2 x 2 1/2" φ L.H.L. (per boiler) O.K. Yes.

a of each set of valves per boiler. Pressure to which they are adjusted. 150 lb/sq. in. Are they fitted with easing gear. Yes.

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

Best distance between boilers or uptakes and bunkers or woodwork. Is oil fuel carried in the double bottom under boilers.

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

est internal dia. of boilers. 13'-0" Length. 11'-6" Shell plates: Material. S.M. Steel Tensile strength. 29-33 Tons.

kness. 29/32" Are the shell plates welded or flanged. No Description of riveting: circ. seams { end. 29/32" inter. 29/32"

seams. T.R. Double Butt Straps Diameter of rivet holes in { circ. seams. 1 1/16" long. seams. 1" Pitch of rivets { plate. 29/32" rivets. 29/32"

centage of strength of circ. end seams { plate. 69.5% rivets. 44.3% Percentage of strength of circ. intermediate seam { plate. 85.8% rivets. 91.3%

centage of strength of longitudinal joint { plate. 89.9% rivets. 91.3% Working pressure of shell by Rules. 156.7 lb/sq. in.

kness of butt straps. 11/16" No. and Description of Furnaces in each Boiler. 2 Doughton Section

rial. S.M. Steel Tensile strength. 26-30 Tons. Smallest outside diameter. 3'-11 1/2"

th of plain part. Thickness of plates { crown. 17/32" bottom. 3/32" Description of longitudinal joint. welded.

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

plates in steam space: Material. S.M. Steel Tensile strength. 26-30 Tons. Thickness. 3/32" Pitch of stays. 17" x 16"

are stays secured. Double nuts Working pressure by Rules.

plates: Material. S.M. Steel Tensile strength. 26-30 Tons. Thickness. 3/32"

pitch of stay tubes in nests. 7 1/2" x 11 1/4" Pitch across wide water spaces. 13 1/2" Working pressure { front. back.

ers to combustion chamber tops: Material. S.M. Steel Tensile strength. 28-32 Tons. Depth and thickness of girder

nce. 8 1/2" x 1 3/4" (2 1/2" flange) Length as per Rule. 5'-9 1/2" Distance apart. 11" No. and pitch of stays

inch. 3 at 8 3/8" Working pressure by Rules. Combustion chamber plates: Material. S.M. Steel

le strength. 26-30 Tons Thickness: Sides. 2 1/32" Back. 2 1/32" Top. 2 1/32" Bottom. 2 1/32"

of stays to ditto: Sides. 11" x 8 5/8" Back. 9 1/2" x 9 1/2" Top. 8 3/4" x 11" Are stays fitted with nuts or riveted over. nuts

ing pressure by Rules. Front plate at bottom: Material. S.M. Steel Tensile strength. 26-30 Tons

ness. 13/16" Lower back plate: Material. S.M. Steel Tensile strength. 26-30 Tons Thickness. 29/32"

of stays at wide water space. 14" x 9 1/2" Are stays fitted with nuts or riveted over. nuts

ing pressure. Main stays: Material. S.M. Steel Tensile strength. 28-32 Tons

eter { At body of stay. 2 1/2" No. of threads per inch. 6 Area supported by each stay.

Shi { Over threads. ing pressure by Rules. Screw stays: Material. S.M. Steel Tensile strength. 26-30 Tons

eter { At turned off part. 1 3/8" No. of threads per inch. 9 Area supported by each stay.

Over threads.

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Working pressure by Rules. 150 Are the stays drilled at the outer ends. no Margin stays: Diameter { At turned off part, 2" or Over threads. 2"
No. of threads per inch. 9 Area supported by each stay. 2 1/2" Working pressure by Rules. 10 w.g.
Tubes: Material. H. R. Steel External diameter { Plain. 2 1/2" Stay. 2 1/2" Thickness { 3/16" No. of threads per inch. 9
Pitch of tubes. 3 1/4" x 3 1/4" Working pressure by Rules. 150 Manhole compensation: Size of opening. 32 - 1 1/4"
shell plate. 20" x 16" Section of compensating ring. 2' 11" x 2' 7" x 2 1/2" No. of rivets and diameter of rivet holes. 32 - 1 1/4"
Outer row rivet pitch at ends. 8 3/4" Depth of flange if manhole flanged. 2" Steam Dome: Material. Steel
Tensile strength. 55,000 Thickness of shell. 3/16" Description of longitudinal joint. Butt
Diameter of rivet holes. 1 1/4" Pitch of rivets. 2" Percentage of strength of joint. 100
Internal diameter. 20" Working pressure by Rules. 150 Thickness of crown. 3/16" No. and diameter of rivets. 32 - 1 1/4"
How connected to shell. Direct Size of doubling plate under dome. 2' 11" x 2' 7" x 2 1/2" Diameter of rivet holes and of rivets in outer row in dome connection to shell. 1 1/4"

Type of Superheater. Water tube Manufacturers of W. & A. Mitchell
Number of elements. 12 Material of tubes. Steel Internal diameter and thickness of tubes. 2 1/2" x 3/16"
Material of headers. Steel Tensile strength. 55,000 Thickness. 3/16" Can the superheater be shut off the boiler be worked separately. Yes
Is a safety valve fitted to every part of the superheater which can be shut off from the boiler. Yes
Area of each safety valve. 1 1/2" Are the safety valves fitted with easing gear. Yes Working pressure at Rules. 150
Pressure to which the safety valves are adjusted. 150 lb/sq. in. Hydraulic test pressure. 225 lb/sq. in.
tubes. for forgings and castings and after assembly in place. Yes Are drain cock valves fitted to free the superheater from water where necessary. Yes

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with. Yes. no mounting fitted.

The foregoing is a correct description,
FOR THE CENTRAL MARINE ENGINE WORKS
(In City & Co. Ltd.)

Dates of Survey while building { During progress of work in shops - - 1950 April 1-26 May 1-4 9-11-16. Are the approved plans of boiler and superheater forwarded herewith. Yes
During erection on board vessel - - - July 27 Aug. 1-17. (If not state date of approval.)
Total No. of visits. 10

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

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

These boilers have been constructed under Special Survey, in accordance with the approved plans and the Rules of the Society for a working pressure of 150 lb per sq. inch. The materials and workmanship are good. On completion they were tested by hydraulic pressure to 275 lb/sq. in. and found sound and tight.

These boilers are being despatched to Middlesbrough where the valves & mountings will be fitted and the boiler installed in Smith Dock Coy. vessel yard No 1211

These boilers have been securely fitted on board, tried under working conditions & found satisfactory. On completion the safety valves were adjusted under steam to 150 lb/sq. in. & blown.

Survey Fee ... £ 58 : 6 : 6 } When applied for. 22-8-1950.
Travelling Expenses (if any) £ : : } When received. 19.....

John Finlay
Engineer Surveyor to Lloyd's Register of Shipping

FRI. 10 AUG 1951

Committee's Minute

Assigned. See F.E. Melby. rpt.



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Foundation