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REPORT ON BOILERS.

No. 117192

Received at London Office

Date of writing Report 6 Oct 1948 When handed in at Local Office 6 Oct 1948 Port of LONDON

No. in Survey held at LONDON Date, First Survey 7th June, 48 Last Survey 7th Sept. 1948

Reg. Book. on the (Number of Visits SIX) Tons Gross Net

Built at By whom built ERIKSBERG S Yard No. 388 When built

Engines made at By whom made Engine No. When made

Boilers made at LONDON By whom made Messrs. TOWLER & SON, Ltd. Boiler No. 383 When made 1948

Owners Port belonging to

VERTICAL BOILER.

Made at LONDON By whom made Messrs. TOWLER & SON, Ltd. Boiler No. 383 When made 1948 Where fixed

Manufacturers of Steel Messrs. CONSETT IRON Co. Ltd.

Total Heating Surface of Boiler 1400 sq. ft. Is forced draught fitted NO Coal or Oil fired Exhaust gas

No. and Description of Boilers ONE Patent Spanner 'SWIRLYFLO' multitubular Working Pressure 150 lb/sq. in.

Tested by hydraulic pressure to 275 lb/sq. in. Date of test 7th Sept. 1948 No. of Certificate 1428

Area of fire grate in each Boiler No. and description of safety valves to each boiler one 2 1/4" double spring

Area of each set of valves per boiler { per Rule 5.3 sq. in. as fitted 7.95 sq. in. Pressure to which they are adjusted Are they fitted with easing gear YES

State whether steam from main boilers can enter the donkey boiler Smallest distance between boiler or uptake and bunkers

Is oil fuel carried in the double bottom under boiler Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated Largest internal dia. of boiler 6'-0" Height 8'-9" overall

Shell plates: Material SM Steel Tensile strength 28-32 t/sq. in. Thickness 9/16"

Are the shell plates welded or flanged NO If fusion welded, state name of welding firm

Have all the requirements of the Rules for Class I vessels been complied with Description of riveting: circ. seams { end single chain 3/4 rivets

Long. seams dble butt strap 4 rows 3/4 riv. Dia. of rivet holes in { circ. seams 13/16" Pitch of rivets { 3" Percentage of strength of circ. seams { plate 59.05 rivets 32.5

of longitudinal joint { plate 72.92 rivets 80.6 Thickness of butt straps { outer 9/16" inner 9/16" Shell Crown: Whether complete hemisphere, dished partial

spherical, or flat flanged Material SM Steel Tensile strength 26-30 t/sq. in. Thickness 7/8"

radius flange R-2 1/2" Description of Furnace: Plain, spherical, or dished crown Material

Tensile strength Thickness External diameter { top bottom Length as per Rule

Pitch of support stays circumferentially and vertically Are stays fitted with nuts or riveted over

Diameter of stays over thread Radius of spherical or dished furnace crown

Thickness of Ogee Ring Diameter as per Rule { D. d.

Combustion Chamber: Material Tensile strength Thickness of top plate

radius if dished Thickness of back plate Diameter if circular

Length as per Rule Pitch of stays

Are stays fitted with nuts or riveted over Diameter of stays over thread

Tube Plates: Material { TOP BOTTOM SM Steel Tensile strength { 26-30 t/sq. in. Thickness { 7/8" Mean pitch of stay tubes in nests 1 1/2"

comprising shell, dia. as per Rule { front back Pitch in outer vertical rows { Dia. of tube holes TOP FRONT { stay 2 1/16" BOTT BACK { stay 2" plain 2"

each alternate tube in outer vertical rows a stay tube

Orders to Combustion Chamber Tops: Material Tensile strength

Depth and thickness of girder at centre Length as per Rule

Distance apart No. and pitch of stays in each



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Crown Stays: Material NONE Tensile strength ✓ Diameter { at body of stay, ✓ or over threads. ✓
No. of threads per inch ✓ Screw Stays: Material ✓ Tensile strength ✓
Diameter { at turned off part, ✓ or over threads. ✓ No. of threads per inch ✓ Are the stays drilled at the outer ends. ✓
Tubes: Material SM steel External diameter { Swirlyflo 2" ✓ Thickness { 9 SWG ✓ 5/16" ✓
No. of threads per inch welded in ✓ Pitch of tubes SWIRLYFLO 2 7/8" stay tubes as per approved plan ✓
Manhole Compensation: Size of opening in shell plate 16" x 12" ✓ Section of compensating ring 5 1/2" x 1 3/16" No. of rivets and diameter ✓
of rivet holes welded on ✓ Outer row rivet pitch at ends ✓ Depth of flange if manhole flanged ✓
Uptake: External diameter 6'-0" Thickness of uptake plate ✓
Cross Tubes: No. NONE External diameters { ✓ Thickness of plates ✓

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with. YES

The foregoing is a correct description,

P.P. TOWLER & SON LTD.

Technical Manager

Dates of Survey while building { During progress of work in shops - - June: 7-23-29; July: 9; Aug. 23; Sept. 7. Is the approved plan of boiler forwarded herewith YES
(If not state date of approval.)
During erection on board vessel - - - Total No. of visits 6 (in shops)

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 built of tested material and surveyed during construction in compliance with the Society's Rules and according to approved plans. The workmanship is of good average standard and the boiler is eligible, in my opinion, to be installed and used in a classed vessel.

Survey Fee ... £ 10 : - : - } When applied for 6 Oct 1948
Travelling Expenses (if any) £ : : } When received 19

Date TUES. 20 DEC 1948
Committee's Minute In univ. see J.E. Rpt

B.S. Bielański
Engineer Surveyor to Lloyd's Register of Shipping.
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