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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. 25.2 on the 25 kg/c (Number of Visits SIX) Tons Gross Net

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

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

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

Owners LONDON Port belonging to LONDON

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 Spannel '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 5.3 sq. ft. 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. ft. as fitted 7.95 sq. ft. Pressure to which they are adjusted 150 lb/sq. in. Are they fitted with easing gear YES

State whether steam from main boilers can enter the donkey boiler NO Smallest distance between boiler or uptake and bunkers

Is oil fuel carried in the double bottom under boiler NO Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated NO 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 YES Description of riveting: circ. seams { end single chain 3/4 rivets

Long. seams double 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 NO Material SM Steel

Tensile strength 26-30 t/sq. in. Thickness 7/8" External diameter { top 7'-0" bottom 7'-0" Length as per Rule YES

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

Diameter of stays over thread YES Radius of spherical or dished furnace crown NO

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

Combustion Chamber: Material SM Steel Tensile strength 26-30 t/sq. in. Thickness of top plate 7/8"

radius if dished NO Thickness of back plate 7/8" Diameter if circular NO

Length as per Rule YES Pitch of stays YES

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

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

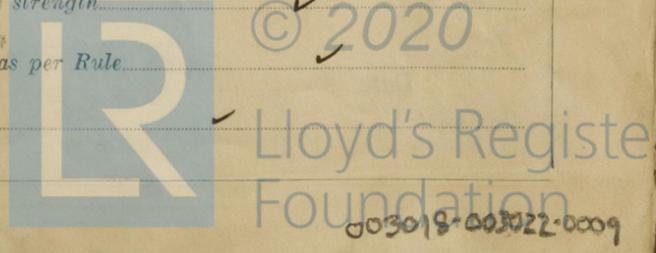
comprising shell, dia. as per Rule { front 2 1/16" back 2 1/16" Pitch in outer vertical rows { Dia. of tube holes 2 1/16" TOP stay 2 1/16" BOTT stay 2" FRONT 2 1/16" BACK 2" plain 2" Swirlyflo

each alternate tube in outer vertical rows a stay tube YES

Girders to Combustion Chamber Tops: Material SM Steel Tensile strength 26-30 t/sq. in.

Depth and thickness of girder at centre YES Length as per Rule YES

Distance apart YES No. and pitch of stays in each YES



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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 1/16" 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.

[Signature]
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 (If not state date of approval.) YES

{ 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

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

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



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Foundation