

5b.

## REPORT ON BOILERS.

No. 478 19601

24 APR 1959

Received at London Office

Date of writing Report 25.3. 19 59 When handed in at Local Office 19 Port of Birmingham.

No. in Survey held at Tipton Date, First Survey 5.12.58. Last Survey 27.2. 19 59.

g. Book. on the Yard No. 1362 (Number of Visits 14) Tons { Gross Net.

uilt at Antwerp By whom built Jos. Boel & Sons Yard No. 1362 When built.

ines made at By whom made Engine No. When made.

ilers made at By whom made Boiler No. When made.

wners. Port belonging to.

## VERTICAL BOILER.

Manufactured at Tipton By whom made Wrights Forge & Eng. Co. Boiler No. J. 2431 - When made 1959 Where fixed.

Manufacturers of Steel Appleby Frodingham

Total Heating Surface of each Boiler 2533 sq. ft. Is forced draught fitted No Coal or Oil fired Exhaust Gas

No. and Description of Boilers One Spanner Swirlyflo Exhaust Gas Silencer Working Pressure 180 lbs.

Tested by hydraulic pressure to 320 lbs. Date of test 25th February, 1959. No. of Certificate 420

Area of fire grate 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 Are they fitted with easing gear.

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' - 10 3/4" Height 9' - 6"

Shell plates: Material Mild Steel Tensile strength 28/32 tons Thickness 5/8"

Are the shell plates welded or flanged Welded If fusion welded, state name of welding firm Wrights Forge & Eng. Co. Ltd. 1.5.59

Have all the requirements of the Rules for Class I vessels been complied with see B'ham Cert Description of riveting: circ. seams { end. inter. Dia. of rivet holes in { circ. seams long. seams Pitch of rivets Thickness of butt straps { outer. inner.

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Material Tensile strength Thickness

Description of Furnace: Plain, spherical, or dished crown Material

Thickness External diameter { top bottom Length as per Rule

Are stays fitted with nuts or riveted over

Radius of spherical or dished furnace crown

Diameter as per Rule { D. d. Thickness of top plate

Diameter if circular

Pitch of stays

Are stays fitted with nuts or riveted over

Stays: Material Top Steel Tensile strength 26/30 tons Thickness 1" Mean pitch of stay tubes in nests 13 1/2"

Bottom Steel Tensile strength 26/30 tons Thickness 1"

BTM Pitch in outer vertical rows Dia. of tube holes TOP FRONT stay 2 1/2" BTM stay 2 1/2"

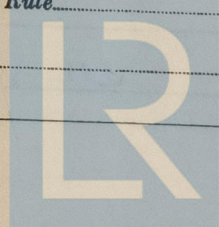
plain 2 1/2" 9/16" plain 2 1/2"

Does alternate tube in outer vertical rows a stay tube No.

Boilers to Combustion Chamber Tops: Material Tensile strength

Height 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..... 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 Seamless Steel SD. External diameter { plain..... 2 1/2" ✓  
stay..... 2 1/2" ✓ Thickness { 8 SWG. ✓  
3/8" ✓

No. of threads per inch..... Pitch of tubes..... 3 3/8" triangular

Manhole Compensation: Size of opening in shell plate 18" x 14" Section of compensating ring 4 1/2" x 1" No. of rivets and dia

of rivet holes..... Outer row rivet pitch at ends..... Depth of flange if manhole flanged.....

Uptake: External diameter..... Thickness of uptake plate.....

Cross Tubes: No..... External diameters { Thickness of plates.....

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with..... No.....

The foregoing is a correct description, the donk

*E. Kan*  
R.P. Wrights Forge & Eng. Co. Ltd. Manufa

Dates { During progress of } 5-12-58 to 27.2.59. Is the approved plan of boiler forwarded herewith 23-9-58.  
of Survey { work in shops - - }  
while { During erection on }  
building { board vessel - - }

Total No. of visits..... 14

Is this Boiler a duplicate of a previous case..... 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

under special survey in conformity with the Society's Rules and Regulations,

Approved Plan and Secretary's letter. The materials and workmanship are good.

The Class 1 Fusion Welded Pressure Parts were made by Wrights Forge & Engineering

Company Limited, Tipton, Staffs and are referred to in the Birmingham Surveyor's

Certificate No.C.42510 dated 17th February, 1959.

The boiler has been despatched to Jos. Boel & Sons. SA. Antwerp.

Survey Fee ... £ 36 : 11 : 6d. When applied for 20/4/59 19 914647

Travelling Expenses (if any) £ 1 : 15 : 0d. When received 19

Date FRIDAY - 4 MAR 1960

Committee's Minute See Rpt. 1.

Engineer Surveyor to Lloyd's Register of Shipping



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