

REPORT ON BOILERS.

No. 303

7 NOV 1956

Received at London Office

Date of writing Report 11.10.1956 When handed in at Local Office _____ 19____ Port of Birmingham

No. in Survey held at Tipton Date, First Survey 22/6/56 Last Survey 11/10/56 19____
Reg. Book. (Number of Visits 10) Tons { Cross _____
Net _____

on the Yard No. 158

Built at Uddevalla By whom built Ab. Uddevallavarvet Aktiebolag Yard No. 158 When built _____

Engines made at _____ By whom made _____ Engine No. _____ When made _____

Boilers made at _____ By whom made _____ Boiler No. _____ When made _____

Owners _____ Port belonging to _____

VERTICAL BOILER.

Made at Tipton By whom made Wrights Forge & Eng Co. Limited Boiler No. J.1718 When made 1956 Where fixed _____

Manufacturers of Steel Consett Iron & Steel Co. & Colvilles Limited

Total Heating Surface of each Boiler 1640 sq. feet Is forced draught fitted _____ Coal or Oil fired Exhaust Gas

No. and Description of Boilers One - Spanner "Swirlyflo" Working Pressure 149 lb

Tested by hydraulic pressure to 275 lb Date of test 11.10.56. No. of Certificate 285

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 _____ Pressure to which they are adjusted _____ Are they fitted with easing gear _____
as fitted _____

State whether steam from main boilers can enter the donkey boiler _____ Smallest distance between boiler or uptake and bunkers or woodwork _____ 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'-2" Height 7'-0"

Shell plates: Material Steel Tensile strength 28-32 tons Thickness 1/2"

Are the shell plates welded or flanged Welded If fusion welded, state name of welding firm R. Jenkins & Co. Limited

Have all the requirements of the Rules for Class I vessels been complied with See Sheffield Cert. Description of riveting: circ. seams { end _____
inter _____

long. seams _____ Dia. of rivet holes in { circ. seams _____ Pitch of rivets { _____ Thickness of butt straps { outer _____
long. seams _____ inner _____

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

Radius _____ Description of Furnace: Plain, spherical, or dished crown None fitted Material _____

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

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 None fitted 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: TOP Steel Tensile strength { 28-32 tons Thickness { 1" Mean pitch of stay tubes in nests 14.37"
BOTTOM Steel Tensile strength { 28-32 tons Thickness { 1"

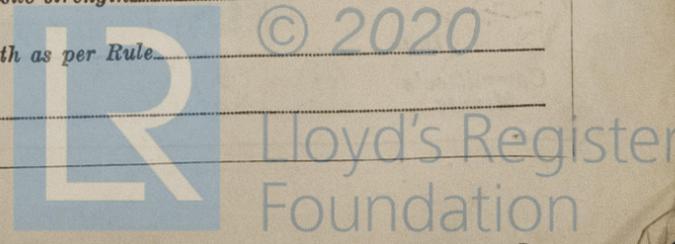
If comprising shell, dia. as per Rule { front _____ Pitch in outer vertical rows { _____ Dia. of tube holes XXXX { stay 2" TOP
back _____ plain 2.1/16 { plain 2"

Is each alternate tube in outer vertical rows a stay tube No.

Girders 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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Rpt. 5a.

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 S. D. seamless steel External diameter { plain 2" stay 2" Thickness 9 SWG 3/8"

No. of threads per inch Stay tubes welded Pitch of tubes 2.7/8" 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 diameter _____

of rivet holes None Outer row rivet pitch at ends _____ Depth of flange if manhole flanged _____

Uptake: External diameter None fitted 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,

J. Mulvett

 Manufacturer.

Dates of Survey { During progress of work in shops - - 22/6/56 - 11/10/56 Is the approved plan of boiler forwarded herewith 12/4/56 (If not state date of approval.)

{ During erection on board vessel - - - Total No. of visits 10

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 constructed under special survey in accordance with the Society's Rules, approved plans and Secretary's letters.

The Class I welded shell was manufactured at the Works of R. Jenkins & Co. Limited and is referred to in the Sheffield Surveyor's Certificate No. C.17854 dated 20th September 1956.

The materials used throughout construction are sound and the workmanship of a good standard.

The boiler has been despatched to A.B. Uddenallavarvet Aktieholag, Uddevalla.

Survey Fee ... £ 19 : 10 : 0 When applied for 6/11 19 56

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

R. P. ...

 Engineer Surveyor to Lloyd's Register of Shipping.

TUESDAY 14 MAY 1957

Date _____

Committee's Minute See Rpt. 1.



Date of writing _____

No. in Reg. Book. _____

Built at _____

Engines made _____

Boilers made _____

MN as per _____

MULTIPLE _____

Manufacturer _____

Total Heat _____

Total for _____

No. and _____

Tested by _____

Area of _____

Area of _____

In case of _____

Smallest d _____

Smallest d _____

Largest in _____

If fusion _____

been comp _____

long. seam _____

Percentage _____

Percentage _____

Thickness _____

Material _____

Length of _____

Dimension _____

End plate _____

How are _____

Tube plate _____

Mean pit _____

Girders _____

at centre _____

in each _____

Tensile st _____

Pitch of s _____

Front plate _____

Thickness _____

Pitch of _____

Main sta _____

Diameter _____

Screw s _____

Diameter _____