

REPORT ON BOILERS.

No. 16599

Received at London Office MAY -2 1939

MIDDLESBROUGH

Date of writing Report 22/4/39 When handed in at Local Office 24/4/39 Port of

No. in Survey held at Stockton-on-Tees Date, First Survey 14th December 1938 Last Survey 21st April 1939

(Number of Visits 5) Tons { Gross Net

on the Built at By whom built Yard No. 54 When built

Engines made at By whom made Engine No. When made

Boilers made at Stockton By whom made Stockton C.E.O Riley Bros Ltd Boiler No. 6339 When made 1939.

Owners Messrs Oresundsvaret Port belonging to

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Steel Company of Scotland Ltd (Letter for Record S)

Total Heating Surface of Boilers 1400 ft Is forced draught fitted - Coal or Oil fired -

No. and Description of Boilers Single Ended Working Pressure 150 lbs

Tested by hydraulic pressure to 275 lbs Date of test 24/4/39 No. of Certificate 6967 Can each boiler be worked separately -

Area of Firegrate 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 -

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler -

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

Smallest distance between shell of boiler and tank top plating - Is the bottom of the boiler insulated -

Largest internal dia. of boilers 11'-8 3/8" Length 11'-4" Shell plates: Material Steel Tensile strength 29/33

Thickness 13/16" Are the shell plates welded or flanged No. Description of riveting: circ. seams end inter. 3 3/4"

Long. seams Q.R.D.B.S Diameter of rivet holes in { circ. seams 1 1/16" long. seams 29/32 + 1 1/16" Pitch of rivets { 11"

Percentage of strength of circ. end seams { plate 71.5 rivets 43.5 Percentage of strength of circ. intermediate seam { plate rivets

Percentage of strength of longitudinal joint { plate 90.3 rivets 97.9 combined 91.0 Working pressure of shell by Rules 153 lbs.

No. and Description of Furnaces in each Boiler 2 - Corrugated (Morison)

Material Steel Tensile strength 26-30 Smallest outside diameter 3'-8 3/8"

Length of plain part { top bottom Thickness of plates { crown bottom 15 1/32 Description of longitudinal joint Weld

Dimensions of stiffening rings on furnace or c.c. bottom - Working pressure of furnace by Rules 152 lbs.

End plates in steam space: Material Steel Tensile strength 26-30 Thickness 29/32 Pitch of stays 16 1/2" x 14"

How are stays secured D.N. + washers. Working pressure by Rules 169 lbs.

Tube plates: Material { front back Steel Tensile strength { 26-30 Thickness { 13/16"

Mean pitch of stay tubes in nests 8.125" Pitch across wide water spaces 14" Working pressure { front 210 lbs back 238 lbs.

Girders to combustion chamber tops: Material Steel Tensile strength 28-32 Depth and thickness of girder

at centre 7 1/2" x 2 @ 5/8" Length as per Rule 2'-6" Distance apart 8 1/2" No. and pitch of stays

in each 2 @ 9" Working pressure by Rules 153 lbs Combustion chamber plates: Material Steel

Tensile strength 26-30 Thickness: Sides 21/32 Back 21/32 Top 21/32 Bottom 21/32

Pitch of stays to ditto: Sides 9" x 10" Back 9" x 10" Top 9" x 8 1/2" Are stays fitted with nuts or riveted over Nuts

Working pressure by Rules 165 lbs Front plate at bottom: Material Steel Tensile strength 26-30 Thickness 29/32

Thickness 29/32 Lower back plate: Material Steel Tensile strength 26-30 Thickness 29/32

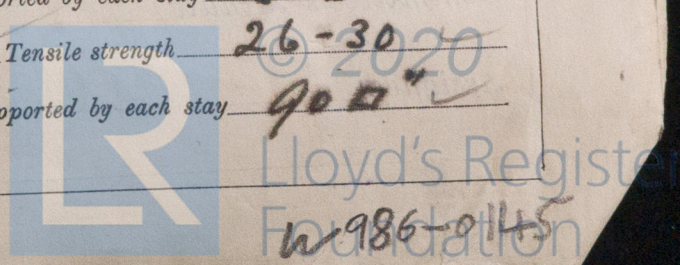
Pitch of stays at wide water space 12" 16" x 9" Are stays fitted with nuts or riveted over Nuts

Working Pressure 158 lbs Main stays: Material Steel Tensile strength 28-32

Diameter { At body of stay, 2 3/8" No. of threads per inch 6 Area supported by each stay 228 sq"

Working pressure by Rules 165 lbs Screw stays: Material Steel Tensile strength 26-30

Diameter { At turned off part, 1 5/8" No. of threads per inch 9 Area supported by each stay 90 sq"



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

STOCKTON CHEMICAL ENGINEERS & RILEY BOILERS Ltd.

The foregoing is a correct description,

MANUFACTURE

Are the approved plans of boiler and superheater forwarded herewith
(If not state date of approval.)

Total No. of visits

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.)

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under Special Survey in accordance with the approved plan, & the Requirements of the Rules. The material & workmanship are good, & the boiler was found sound & tight under hydraulic pressure of 275 lbs/sq. in.

This boiler is to be forwarded to Landskrona & is eligible in my opinion to be fitted in a classed vessel.

Travelling Expenses (if any) £ : : When received, 27.6. 1939

Fee paid as per Lon. Ltr 27.6.39,
advs. to the Hbz office.

R. J. Easthope:
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

See Memo J.E. 1826

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Foundation