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REPORT ON BOILERS.

No. 106837

Received at London Office 22 DEC 1949

NEWCASTLE-ON-TYNE

Date of writing Report 20.12.49 When handed in at Local Office 20.12.49 Port of WALLSEND-ON-TYNE
No. in Reg. Book. Survey held at WALLSEND-ON-TYNE Date, First Survey 3.10.49 Last Survey 19.12.49
on the M.T. "SVITHIOD" (Number of Visits 7) Tons Gross Net
Master Built at MALMO By whom built KOCKUMS Yard No. 325 When built
Engines made at By whom made Engine No. When made
Boilers made at WALLSEND-ON-TYNE By whom made WALLSEND SLIPWAY & ENG CO. L^d Boiler No. 4243 When made 1949
Nominal Horse Power 2806/12 = 234 Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel COLVILLES L^{td} (Letter for Record 5)
Total Heating Surface of Boilers 1403 x 2 = 2806 sq ft Is forced draught fitted Coal or Oil fired OIL
No. and Description of Boilers Two SINGLE ENDED MULTITUBULAR Working Pressure 12 Kilo/CM² 170-678 LBS/0
Tested by hydraulic pressure 306.5 LBS/0 Date of test 5.12.49 No. of Certificate 1369 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 11'-9 3/4" Is the bottom of the boiler insulated
Largest internal dia. of boilers 11'-1 13/16" Length 11'-4 3/4" Shell plates: Material STEEL Tensile strength 29/33 Tons/p
Thickness 7/8" Are the shell plates welded or flanged No Description of riveting: circ. seams end DOUBLE RIVETED
long. seams 3/32" 3/32" Pitch of rivets 3" 6 7/8"
Percentage of strength of circ. end seams plate 68% rivets 43% Percentage of strength of circ. intermediate seam plate rivets
Percentage of strength of longitudinal joint plate 85.9% rivets 91% combined 90% Working pressure of shell by Rules 176 LBS/0
Thickness of butt straps outer 11/16" inner 13/16" No. and Description of Furnaces in each Boiler Two CORRUGATED DEIGHTON TYPE
Material STEEL Tensile strength 26/30 Tons/p Smallest outside diameter 3'-6 1/2"
Length of plain part top 17' bottom Thickness of plates crown 1/32" bottom Description of longitudinal joint WELD
Dimensions of stiffening rings on furnace or c.c. bottom NONE Working pressure of furnace by Rules 180 LBS/0
End plates in steam space: Material STEEL Tensile strength 26/30 Tons/p Thickness 3/32" Pitch of stays 15" x 16"
How are stays secured EN TO PLATES Working pressure by Rules 179 LBS/0
Tube plates: Material front STEEL back Tensile strength 26/30 Tons/p Thickness 3/32" 3/4"
Lean pitch of stay tubes in nests 10 25/32 Pitch across wide water spaces 13" Working pressure front 214 LBS/0 back 173 LBS/0
Girders to combustion chamber tops: Material STEEL Tensile strength 29/33 Tons/p Depth and thickness of girder
centre 6 1/2" x 3/4" DOUBLE Length as per Rule 28 1/4" Distance apart 7 3/4" No. and pitch of stays
each 2 2 8 3/4" Working pressure by Rules 182 LBS/0 Combustion chamber plates: Material STEEL
Tensile strength 26/30 Tons/p Thickness: Sides 3/4" Back 3/4" Top 3/4" Bottom 3/4"
Pitch of stays to ditto: Sides 8 1/4" x 8 3/4" Back 8" x 8 1/2" Top 8 3/4" x 7 3/4" Are stays fitted with nuts or riveted over BOTH
Working pressure by Rules 182 LBS/0 Front plate at bottom: Material STEEL Tensile strength 26/30 Tons/p
Thickness 3/32" Lower back plate: Material STEEL Tensile strength 26/30 Tons/p Thickness 3/32"
Pitch of stays at wide water space 14" Are stays fitted with nuts or riveted over BOTH
Working pressure 235 LBS/0 Main stays: Material STEEL Tensile strength 28/32 Tons/p
At body of stay 2 1/4" No. of threads per inch Area supported by each stay 15" x 16"
Working pressure by Rules 178 LBS/0 Screw stays: Material STEEL Tensile strength 26/30 Tons/p
At turned off part 1 1/2" No. of threads per inch 9 Area supported by each stay 8 3/4" x 8 1/4"

Lloyd's Register
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$$\begin{array}{r} 32 \\ 16 \\ \hline 14 \end{array}$$
Type of Superheater NONE

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

FOR THE WALLSEND SLIPWAY & ENGINEERING CO. LIMITED

J.B. Kerr. MANAGING DIRECTOR

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.) *The boiler has been constructed in the*

The materials & workmanship are good.

The bales have been despatched to Malmo to be fitted on board.

C. A. Orde

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute.

FRI. 20 JUL 1951

Assigned.

See F. E. nelson, opt.

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