

# REPORT ON BOILERS.

No. 67166

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Date of writing Report 19 When handed in at Local Office 31. 5. 1943 Port of Glasgow

No. in Reg. Book. Glasgow Survey held at Glasgow Date, First Survey 27th Mar 1942 Last Survey 25th Jan. 1943

on the "OXNA" (Number of Visits 14) Tons {Gross Net

Master Built at Glasgow By whom built A. & J. Inglis, Ltd. Yard No. 1172P When built

Engines made at Clydebank By whom made Witcham Blair Ltd. Engine No. 246 When made

Boilers made at Glasgow By whom made Bonday Cullen & Co. Ltd. Boiler No. 41/5 When made 1943

Nominal Horse Power 177 154 Owners Port belonging to

## MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Colvilles Ltd. (Letter for Record S)

Total Heating Surface of Boilers 2657 sq ft Is forced draught fitted Y Coal or Oil fired Coal

No. and Description of Boilers One Single-ended Working Pressure 200 lb.

Tested by hydraulic pressure to 350 lb. Date of test 13-7-42 No. of Certificate 21123 Can each boiler be worked separately

Area of Firegrate in each Boiler 62 sq ft 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 <sup>Ex</sup> internal dia. of boilers 15'-0" Length 11'-6" Shell plates: Material S Tensile strength 29/33 tons

Thickness 1 5/16" Are the shell plates welded or flanged No Description of riveting: circ. seams {end inter} Amcke

long. seams DBS TR Diameter of rivet holes in {circ. seams long. seams} 1 3/8" Pitch of rivets { 3.74" 9/16"

Percentage of strength of circ. end seams {plate rivets} 63.2 47.8 Percentage of strength of circ. intermediate seam {plate rivets} 85.5 88.2

Percentage of strength of longitudinal joint {plate rivets combined} 88.6 Working pressure of shell by Rules

Thickness of butt straps {outer inner} 1" 1 1/8" No. and Description of Furnaces in each Boiler 3 Dighton

Material S Tensile strength 26/30 tons Smallest outside diameter 42 1/4"

Length of plain part {top bottom} Thickness of plates {crown bottom} 19/32" Description of longitudinal joint welded

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

End plates in steam space: Material S Tensile strength 26/30 tons Thickness 1 9/32" Pitch of stays 19" x 19"

How are stays secured D.N. Working pressure by Rules

Tube plates: Material {front back} S Tensile strength { 26/30 tons Thickness { 7/8" 3/4"

Mean pitch of stay tubes in nests 9.87" Pitch across wide water spaces 13 3/4" Working pressure {front back}

Girders to combustion chamber tops: Material S Tensile strength 28/32 tons Depth and thickness of girder

at centre 2 @ 9 3/4" x 7/8" Length as per Rule 37 9/16" Distance apart 9 1/8" W 8" C No. and pitch of stays

in each 3 @ 9" Working pressure by Rules Combustion chamber plates: Material S

Tensile strength 26/30 tons Thickness: Sides 1 1/16" Back 1 1/16" Top 1 1/16" Bottom 3/4"

Pitch of stays to ditto: Sides 9" x 9 1/8" Back 8 7/8" x 9 1/4" Top 9" x 9 1/8" Are stays fitted with nuts or riveted over Nuts

Working pressure by Rules Front plate at bottom: Material S Tensile strength 26/30 tons

Thickness 7/8" Lower back plate: Material S Tensile strength 26/30 tons Thickness 13/16"

Pitch of stays at wide water space 13 3/4" Are stays fitted with nuts or riveted over Nuts

Working Pressure Main stays: Material S Tensile strength 28/32 tons

Diameter {At body of stay or Over threads} 3 1/4" No. of threads per inch 6 Area supported by each stay

Working pressure by Rules Screw stays: Material S Tensile strength 26/30 tons

Diameter {At turned off part or Over threads} 1 3/4" No. of threads per inch 9 Area supported by each stay



