

REPORT ON BOILERS.

No. 17043

Received at London Office

5 AUG 1930

18 MAR 1931

Date of writing Report 31. 7. 1930 When handed in at Local Office 31. 7. 1930 Port of Grisby

No. in Reg. Book 515 Survey held at Newark-on-Trent Date, First Survey 29. 4. 30 Last Survey 31. 7. 30
on the S/S "Macduff" (Number of Visits 4) Gross Tons 4561 Net Tons 3626

Built at Glasgow By whom built Barclay Curle & Co. Ltd. Yard No. 644 When built 1931
Engines made at Greenock By whom made J. G. Kincaid & Co. Ltd. Engine No. 65/L When made 1931
Boilers made at Newark-on-Trent By whom made Abbott & Co. (Newark) Ltd. Boiler No. 9343 When made 1930
Owners Burns Philp & Co. Ltd. Port belonging to Sydney

VERTICAL DONKEY BOILER.

Made at Lincoln By whom made Abbott & Co. (Newark) Ltd. Boiler No. 9343 When made 1930 Where fixed Engine Room

Manufacturers of Steel Parkgate & Co. Ltd.

Total Heating Surface of Boiler 143.9 sq. ft. Is forced draught fitted No ~~Coal~~ Oil fired Exhaust gas

No. and Description of Boilers One Clarkson Patent, Waste Heat Working pressure 100 lb.

Tested by hydraulic pressure to 220 lb. Date of test 31-7-30 No. of Certificate 301

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 Bouchboun's Improved High Lift

Area of each set of valves per boiler per rule 1.465 sq. ft. Pressure to which they are adjusted 100 lb. Are they fitted with easing gear Yes

State whether steam from main boilers can enter the donkey boiler Smallest distance between boiler or uptake and bunkers or woodwork 10 ft

Is oil fuel carried in the double bottom under boiler No Smallest distance between base of boiler and tank top plating 37 ft

Is the base of the boiler insulated No Largest internal dia. of boiler 3'-6" Height 6'-10"

Shell plates: Material S.K. steel Tensile strength 28/32 T Thickness 3/8"

Are the shell plates welded or flanged Description of riveting: circ. seams end S.R. Lap inter. DR. long. seams DR. Lap

Dia. of rivet holes in circ. seams 13/16" Pitch of rivets 2" Percentage of strength of circ. seams plate 59.4 rivets 56.7 of Longitudinal joint plate 70 rivets 82 combined

Working pressure of shell by rules 162 lb. Thickness of butt straps outer inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat flat Material S.K. steel

Tensile strength 26/30 T Thickness 9/16" Radius 2" Working pressure by rules 108 lb.

Description of Furnace: Plain, spherical, or dished crown plain Material S.K. steel Tensile strength 26/30 T

Thickness 9/16" External diameter top 32 1/8" bottom Length as per rule 3'-10" Working pressure by rules 108 lb.

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 Working pressure by rule

Thickness of Ogee Ring Diameter as per rule D a Working pressure by rule

Combustion Chamber: Material Tensile strength Thickness of top plate

Radius if dished Working pressure by rule 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 Working pressure of back plate by rules

Tube Plates: Material Tensile strength Thickness Mean pitch of stay tubes in nests

If comprising shell, Dia. as per rule Pitch in outer vertical rows Dia. of tube holes FRONT BACK

Is each alternate tube in outer vertical rows a stay tube Working pressure by rules

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 Working pressure by rule

If not, state whether, and when, oil will be sent?

Is a Report also sent on the Hull of the Ship?

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