

REPORT ON BOILERS.

No. 26955

MON. 16 APR. 1917

Received at London Office

5a.

Writing Report 10th April 1917 When handed in at Local Office 11th April 1917 Port of Swinsland
 Survey held at Swinsland Date, First Survey see Machinery report 191
 on the Donkey Boiler of S.S. "Dockleaf" Number of Visits 5311
Libson Built at Swinsland By whom built Bartram & Sons Ltd When built 1917
 es made at Swinsland By whom made J. Dickinson & Sons Ltd When made 1917
 s made at " By whom made J. Dickinson & Sons Ltd When made 1917
 er Horse Power " Owners Mr & Macandrew Ltd Port belonging to London

LTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spencer & Sons
 for record 15 Total Heating Surface of Boilers 1152 Is forced draft fitted no No. and Description of
1 Single ended Working Pressure 120 lbs Tested by hydraulic pressure to 240 lbs Date of test 10/11/16
 Certificate 3369 Can each boiler be worked separately ✓ Area of fire grate in each boiler 33.7 No. and Description of
 valves to each boiler 2 direct spring Area of each valve 7.068 Pressure to which they are adjusted 120 lbs
 They fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no
 est distance between boilers or uptakes and bunkers or woodwork on deck Mean dia. of boilers 10'-10 5/8" Length 11'-0"
 3/8" of shell plates Steel Thickness 1 1/16" Range of tensile strength 28-32 tons Are the shell plates welded or flanged no
 rip. of riveting: cir. seams d.r.c. long. seams E.T.d.c. Diameter of rivet holes in long. seams 15/16" Pitch of rivets 4 3/4"
 19/12" of plates or width of butt straps 9 7/8" Per centages of strength of longitudinal joint 94.33 Working pressure of shell by
121 lbs Size of manhole in shell 16" x 12" Size of compensating ring 7 7/8" x 1 1/16" No. and Description of Furnaces in each
2 plain Material Steel Outside diameter 38" Length of plain part 79 1/2" Thickness of plates 5 7/8"
 Do. 2/8" of longitudinal joint S.T.S. No. of strengthening rings ✓ Working pressure of furnace by the rules 132 1/2" Combustion chamber
 Do. 9/4" of Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 3/4" Pitch of stays to ditto: Sides 10 1/2" x 9" Back 10 5/8" x 10"
10 1/2" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 127 lbs Material of stays Steel Diameter at
 est part 1 7/8" Area supported by each stay 106" Working pressure by rules 130 lbs End plates in steam space: Material Steel Thickness 3/4"
 of stays 15 1/4" x 1 1/2" How are stays secured d.n.g.w. Working pressure by rules 123 lbs Material of stays Steel Diameter at smallest part 2.5"
 supported by each stay 217.5 Working pressure by rules 120 lbs Material of Front plates at bottom Steel Thickness 1 1/16" Material of
 r back plate Steel Thickness 1 1/16" Greatest pitch of stays 12 1/2" x 10 5/8" Working pressure of plate by rules 121.5 lbs Diameter of tubes 3 1/4"
 of tubes 4 1/2" x 4 1/2" Material of tube plates Steel Thickness: Front 13/16" Back 1 1/16" Mean pitch of stays 9" x 13 1/2" Pitch across wide
 spaces 14" Working pressures by rules 121 lbs Girders to Chamber tops: Material Steel Depth and thickness of
 r at centre 6 1/2" x 1 3/4" Length as per rule 33 3/16" Distance apart 8" Number and pitch of Stays in each 2 of 10 1/2"
 king pressure by rules 131 lbs Superheater or Steam chest: how connected to boiler none Can the superheater be shut off and the boiler worked
 rately ✓ Diameter ✓ Length ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet
✓ Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓
150° F fiffened with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness ✓ How stayed ✓
 king pressure of end plates ✓ Area of safety valves to superheater ✓ Are they fitted with easing gear ✓

The foregoing is a correct description,

J. Dickinson Manufacturer.

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits ✓

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This boiler has been built under special survey,
the materials used are good, and the workmanship
is satisfactory

Survey Fee ... £ 20 : : When applied for, 191.
 Travelling Expenses (if any) £ ✓ : : When received, 191.

Committee's Minute

Assigned

See Sld. Report attached

Charles Cooper
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

FRI. 5-JUL. 1918

Lloyd's Register
 Foundation

W250-0171