

REPORT ON BOILERS.

No. 27997
SAT. DEC. 18 1920

Received at London Office

Date of writing Report

19

When handed in at Local Office

17 DEC 1920

Port of Sunderland

No. in Survey held at Sunderland

Date, First Survey see Machinery report attached 19 20

Reg. Book.

(Number of Visits)

Gross 5074
Net 3150

on the donkey boiler for S/S "STONEWALL"

Master W. Frolic Built at Sunderland By whom built Bartram & Sons S/S N. 253 When built 1920

Engines made at Sunderland By whom made J. Dickinson & Sons Ld. (N. 837) when made 1920

Boiler made at Sunderland By whom made J. Dickinson & Sons Ld. (N. 1073) when made 1920

Registered Horse Power

Owners Farland Steamship Corporation Port belonging to New York

ULTITUBULAR BOILERS — ~~MAIN, AUXILIARY OR DONKEY.~~ — Manufacturers of Steel John Spencer & Sons Ld.

Letter for record S Total Heating Surface of Boilers 1172 sq ft Is forced draft fitted no No. and Description of

Boilers one single ended main Working Pressure 120 Tested by hydraulic pressure to 240 Date of test 22-11-20

No. of Certificate 3735 Can each boiler be worked separately - Area of fire grate in each boiler 330 sq ft No. and Description of

Safety valves to each boiler two direct spring Area of each valve 7.07 sq in Pressure to which they are adjusted 120 lbs

Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no

Smallest distance between boilers or uptakes and bunkers or woodwork 19 in Mean dia. of boilers 11-0 in Length 11-0 in

Material of shell plates steel Thickness 1/16 in Range of tensile strength 28-32 tons Are the shell plates welded or flanged no

Description of riveting: cir. seams DR long. seams DRS. DR Diameter of rivet holes in long. seams 15/16 in Pitch of rivets 4 3/4 in

Percentage of strength of longitudinal joint 94.3 Working pressure of shell by rules 80.2

No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 3-2 in Length of plain part 80 in Thickness of plates 5/8 in

Description of longitudinal joint SBS. SR No. of strengthening rings none Working pressure of furnace by the rules 129 Combustion chamber

Material steel Thickness: Sides 5/8 in Back 5/8 in Top 5/8 in Bottom 1/8 in Pitch of stays to ditto: Sides 10 1/2 x 9 in Back 10 x 10 in

Working pressure by rules 135 Material of stays steel Diameter at smallest part 2.5 in

Area supported by each stay 94.60 sq in Working pressure by rules 122 End plates in steam space: Material steel Thickness 3/4 in

How are stays secured DN&W Working pressure by rules 123 Material of stays steel Diameter at smallest part 2.5 in

Area supported by each stay 2180 sq in Working pressure by rules 119 Material of Front plates at bottom steel Thickness 13/16 in

Material of tubes steel Thickness 1/16 in Greatest pitch of stays 12 1/2 x 10 in Working pressure of plate by rules 127 Diameter of tubes 3 1/4 in

Material of tube plates steel Thickness: Front 13/16 in Back 1/16 in Mean pitch of stays 11 1/4 in Pitch across wide

Working pressures by rules 120 Girders to Chamber tops: Material steel Depth and thickness of

Length as per rule 33.18 in Distance apart 8 in Number and pitch of Stays in each 2 @ 10 1/2 in

Superheater or Steam chest: how connected to boiler none Can the superheater be shut off and the boiler worked

Can the superheater be shut off and the boiler worked

Material of flue plates

Material of flue plates

End plates: Thickness

How stayed

Are they fitted with easing gear

Area of safety valves to superheater

Are they fitted with easing gear

Is the approved plan of boiler forwarded herewith yes

Total No. of visits 1

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

The materials and workmanship are good. The boiler has been constructed under special survey, satisfactorily fixed on the upper deck and its safety valves adjusted under steam. Working pressure F 1 1/2 A 3/8.

Survey Fee ... £ 3 : 18 : When applied for 15-12-1920

Travelling Expenses (if any) £ : : When received 17 DEC 1920

Signature J. S. Davis

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

Date TUE. 21 DEC 1920

Committee's Minute

Signature



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