

REPORT ON BOILERS.

No. 38620

THU. 7 - AUG. 1919

Received at London Office

Date of writing Report

When handed in at Local Office

24 Aug 1919 Port of Glasgow

No. in Survey held at

Dumbarton

Date, First Survey 3/9/18

Last Survey 13/3/1919

Reg. Book.

on the Steamer Beechpark

(Number of Visits 13)

Gross 5135.35

Net 3168.65

Master J. Davies

Built at Greenock

By whom built Greenock & Fairlie Ltd

When built 1919

Engines made at Greenock

By whom made Kincaid & Co Ltd

When made 1919

Boilers made at Dumbarton

By whom made Tom Denny & Bros Ltd (50,346)

When made 1919

Registered Horse Power

Owners The Benholm Shipping Co Ltd Port belonging to Greenock

ULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Company of Scotland

Letter for record (5) Total Heating Surface of Boilers 7668 sq ft Is forced draft fitted yes No. and Description of

Boilers 3 Single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 13/3/19

of Certificate 14653 Can each boiler be worked separately yes Area of fire grate in each boiler 63.3 sq ft No. and Description of

valves to each boiler Two Spring Area of each valve 9.62 sq ft Pressure to which they are adjusted 185 lb

they fitted with easing gear yes 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 25" Mean dia. of boilers 15'-6" Length 11'-6"

Material of shell plates steel Thickness 1 1/4" Range of tensile strength 28 to 32 Are the shell plates welded or flanged no

Method of riveting: cir. seams double lap long. seams treble butt Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 9 5/8"

Distance between plates or width of butt straps 19 1/2" Per centages of strength of longitudinal joint rivets 88.3 Working pressure of shell by

rules 182 Size of manhole in shell 16" x 18" Size of compensating ring plate flanged No. and Description of Furnaces in each

boiler 3 Doughton Material steel Outside diameter 50 3/16" Length of plain part top Thickness of plates crown 1 1/4" bottom 3/32"

Description of longitudinal joint welded No. of strengthening rings ✓ Working pressure of furnace by the rules 187 Combustion chamber

Material steel Thickness: Sides 23/32" Back 11/16" Top 23/32" Bottom 23/32" Pitch of stays to ditto: Sides 10 5/8" x 9 1/4" Back 10 1/4" x 8 3/4"

10 5/8" x 9 1/4" stays are fitted with nuts or riveted heads nuts Working pressure by rules 180 Material of stays steel Diameter at

largest part 2.39" Area supported by each stay 99 sq in Working pressure by rules 216 End plates in steam space: Material steel Thickness 1 1/4"

of stays 2 1/4" x 2 1/2" How are stays secured 2 nuts 8 3/32" Working pressure by rules 189 Material of stays steel Diameter at smallest part 8.29"

supported by each stay 4.54" Working pressure by rules 189 Material of Front plates at bottom steel Thickness 3/32" Material of

back plate steel Thickness 27/32" Greatest pitch of stays 13 5/8" Working pressure of plate by rules 205 Diameter of tubes 2 3/4"

of tubes 4 x 3 3/8" Material of tube plates steel Thickness: Front 31/32" Back 3/4" Mean pitch of stays 9 13/16" Pitch across wide

spaces 13 5/8" Working pressures by rules 182 Girders to Chamber tops: Material steel Depth and thickness of

at centre 10" x 2" double Length as per rule 36 Distance apart 10 5/8" Number and pitch of Stays in each (3) 9 1/4"

Working pressure by rules 182 Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked

separately 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

lined with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,

John Denny & Bros Ltd Manufacturer.

During progress of 1918. Sept 3. 6. 25. Oct 1. 17. 22. 31. Nov 4. Dec. 20

Is the approved plan of boiler forwarded herewith no

During erection on board vessel 1919. Jan. 15. Feb. 20. 25. Mar. 13

Total No. of visits 13

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

seen under special survey the materials and workmanship

of good description. The valves have been sent to Greenock.

These boilers have now been efficiently fitted on board the above

named steamer.

Survey Fee ... £ 11 : 9 :

When applied for Jan 3/19 1919

Travelling Expenses (if any) £ 17 : 2 :

When received Jan 30/19 1919

A. McKeand & Co. Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 1 APR 1919

6 AUG 1919

Transmit to LONDON

See Greenock Report No. 17503

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