

# REPORT ON BOILERS.

No. 10713  
SAT JUN. 12 1920

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Survey held at Stockton-on-Tees Date, First Survey 10<sup>th</sup> Nov. 1919. Last Survey 4<sup>th</sup> June 1920

on the Steel Screw Steamer "H.H. Asquith" (Number of Visits 79) Tons } Gross }  
(S.S. No 522) Net }

Built at Stockton By whom built Messrs Ropner, S.B. & P. Co. Ltd. When built 1920

Lines made at Stockton By whom made Messrs Blair & Co. Ltd. (No. 1873) When made 1925

Boilers made at Stockton By whom made Messrs Blair & Co. Ltd. (No. E. 1339) When made 1920

Registered Horse Power \_\_\_\_\_ Owners \_\_\_\_\_ Port belonging to \_\_\_\_\_

MULTITUBULAR BOILERS — MAIN, AUXILIARY OR DONKEY — Manufacturers of Steel Messrs J. Spencer & Arns

Number for record (5) Total Heating Surface of Boiler 1432 sq ft Is forced draft fitted no No. and Description of Boilers One single ended

Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 19.3.20

of Certificate 6101 Can each boiler be worked separately yes Area of fire grate in each boiler 45.6 sq ft No. and Description of Valves to each boiler Two direct spring

Area of each valve 5.94 Pressure to which they are adjusted 185 lbs.

Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓

Least distance between boilers 2'-0" and bunkers External Mean dia. of boilers 13'-0" Length 10'-6"

Material of shell plates steel Thickness 1 1/2" Range of tensile strength 28-32 Are the shell plates welded or flanged no

Direction of riveting: cir. seams 2 Riv. lap long. seams 2 B-3 Riv Diameter of rivet holes in long. seams 1 3/8" Pitch of rivets 8 3/8"

Width of butt straps 17 3/4 x 3/32 Per centages of strength of longitudinal joint rivets 92.7 Working pressure of shell by plate 85.0

Size of manhole in shell 16" x 12" Size of compensating ring 7 1/2" x 1 1/2" No. and Description of Furnaces in each

3 Dighton Material steel Outside diameter 39 3/4" Length of plain part top Thickness of plates bottom 1 1/2"

Description of longitudinal joint weld No. of strengthening rings ✓ Working pressure of furnace by the rules 190 Combustion chamber

Material steel Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 1/2" Pitch of stays to ditto: Sides 8 1/2" x 10" Back 9 1/4" x 9 1/2"

If stays are fitted with nuts or riveted heads nuts Working pressure by rules 187 Material of stays steel Area at

Least part 1.99 Area supported by each stay 86.6 Working pressure by rules 207 End plates in steam space: Material steel Thickness 1 1/2"

How are stays secured nuts Working pressure by rules 184 Material of stays steel Area at smallest part 5.56

Area supported by each stay 297 Working pressure by rules 194 Material of Front plates at bottom steel Thickness 1 1/2" Material of

Back plate steel Thickness 1 1/2" Greatest pitch of stays 14" x 9 3/8" Working pressure of plate by rules 212 Diameter of tubes 3 1/4"

Material of tube plates steel Thickness: Front 1 1/2" Back 1 1/2" Mean pitch of stays 11 7/8" Pitch across wide

spaces 14 1/2" Working pressures by rules 187 Girders to Chamber tops: Material steel Depth and thickness of

at centre 7" x 2" Length as per rule 29" Distance apart 9" Number and pitch of Stays in each 2 @ 9"

Working pressure by rules 200 Steam dome: description of joint to shell none % of strength of joint

Thickness of shell plates \_\_\_\_\_ Material \_\_\_\_\_ Description of longitudinal joint \_\_\_\_\_ Diam. of rivet holes \_\_\_\_\_

Working pressure of shell by rules \_\_\_\_\_ Crown plates \_\_\_\_\_ Thickness \_\_\_\_\_ How stayed \_\_\_\_\_

Superheater. Type \_\_\_\_\_ Date of Approval of Plan \_\_\_\_\_ Tested by Hydraulic Pressure to \_\_\_\_\_

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler \_\_\_\_\_

Pressure to which each is adjusted \_\_\_\_\_ Is Easing Gear fitted \_\_\_\_\_

The foregoing is a correct description,

FOR BLAIR & Co., LIMITED,

Geo. Ashworth Manufacturer.

Is the approved plan of boiler for use at \_\_\_\_\_ yes

Total No. of visits ✓

During progress of work in shops - - - See report on Engines.

During erection on board vessel - - -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special

ways: is of good material and workmanship and on completion was tested by hydraulic pressure

with satisfactory results. The boiler has been satisfactorily secured on board, examined

under steam and safety valves adjusted

Survey Fee ... £ included in machinery When applied for, ... 19

Travelling Expenses (if any) £ \_\_\_\_\_ When received, ... 19

Committee's Minute

FRI. JUN. 18 1920

Wm Morrison © 2021  
Engineer Surveyor to Lloyd's Register of Shipping.

signed See job for rpt attached