

REPORT ON BOILERS.

No. 11119

Received at London Office

Date of writing Report 19 When handed in at Local Office 5.10.21 19 Port of Middlesbrough

No. in Survey held at Stockton-on-Tees Date, First Survey 5th August Last Survey 30th September 1921

Reg. Book. on the S.S. Asiatic Ex Arthurian (Number of Visits 12) } Gross Tons } Net Tons

Master Built at Burntisland By whom built Burntisland S.B. Co. When built 1923

Engines made at Dunder By whom made Thos Cooper & Co When made 1923

Boilers made at Stockton By whom made Thos Riley Bros Ltd (Nº 5327) When made 1921

Registered Horse Power Owners W. H. Cockburn & Co Port belonging to Hull

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer & Sons

Letter for record (S)) Total Heating Surface of Boilers 840 ft Is forced draft fitted no No. and Description of Boilers One single ended Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 30.9.21

No. of Certificate 6244 Can each boiler be worked separately ✓ Area of fire grate in each boiler 30.5 ft No. and Description of safety valves to each boiler Two spring loaded Area of each valve 4.9 sq in 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 ✓

Smallest distance between boilers or uptakes and bunkers 12 in Mean dia. of boilers 10'-0" Length 10'-0"

Material of shell plates steel Thickness 2 7/32 Range of tensile strength 28-32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams 2 Riv. lap long. seams 2 Riv. 3 Riv? Diameter of rivet holes in long. seams 1 1/8 Pitch of rivets 7 in

Lap of plates or width of butt straps 13 1/2 x 1 1/2 Per centages of strength of longitudinal joint rivets 87.3 plate 86.37 Working pressure of shell by rules 182 Size of manhole in shell 19" x 15" Size of compensating ring 7 x 1 in No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 38 Length of plain part top 7 1/4 bottom 10 1/2 Thickness of plates crown 3/4 bottom 1 1/8 mean 1 1/8

Description of longitudinal joint weld No. of strengthening rings none Working pressure of furnace by the rules 215 Combustion chamber plates: Material steel Thickness: Sides 5/8 Back 5/8 Top 5/8 Bottom 1 1/8 Pitch of stays to ditto: Sides 9 x 8 Back 8 1/2 x 8

Top 8 1/2 x 7 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 186 Material of stays steel Area at smallest part 1.73 Area supported by each stay 72 Working pressure by rules 192 End plates in steam space: Material steel Thickness 1

Pitch of stays 19 x 12 1/2 How are stays secured nuts & washers Working pressure by rules 181 Material of stays steel Area at smallest part 5.05

Area supported by each stay 242 Working pressure by rules 217 Material of Front plates at bottom steel Thickness 1 Material of Lower back plate steel Thickness 1 Greatest pitch of stays 13 1/2 x 8 Working pressure of plate by rules 280 Diameter of tubes 3 1/4

Pitch of tubes 4 1/2 x 4 1/4 Material of tube plates steel Thickness: Front 1 Back 3/4 Mean pitch of stays 10 1/8 Pitch across wide water spaces 13 1/2 x 8 1/2 Working pressures by rules 196 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 8 1/2 x 1 1/2 Length as per rule 30 Distance apart 8 3/4 Number and pitch of Stays in each 30 7 1/2

Working pressure by rules 185 Steam dome: description of joint to shell none % of strength of joint

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

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

UPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

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

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

FOR The foregoing is a correct description,
RILEY BROS. (BOILERMAKERS) LIMITED. Manufacturer.

Dates of Survey During progress of Aug 5.9.23.26.Sep.1.5.8.12.16.19.23.30. Is the approved plan of boiler forwarded herewith yes

while building During erection on board vessel - - - Total No. of visits 12

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey: is of good material and workmanship and on completion was tested by hydraulic pressure with satisfactory results

This boiler has been fitted on board in a satisfactory manner tried under steam & found efficient

Survey Fee ... £ 5-12-0 When applied for Monthly 19 20

Travelling Expenses (if any) £ : : When received, 19 20

Committee's Minute TUE. 30 JAN. 1923

Assigned

Wm Morrison & Co
Engineer Surveyor to Lloyd's Register of Shipping.