

## REPORT ON BOILERS.

No. 10711

WED. JUN. 9 1920

Received at London Office

10711  
 Date of writing Report 2.6.20 10 When handed in at Local Office 5.6.20 10 Port of Middlesbrough  
 No. in Survey held at Stockton-on-Tees Date, First Survey 18th March Last Survey 2nd June 1920  
 Reg. Boole. S.S. Atxeri-Mendi (Number of Visits 9) Gross Tons }  
 on the S.S. No 536 Net  
 Built at Stockton By whom built Refner S.B. & P. & Co. Ltd When built 1921  
 Engines made at Stockton By whom made James Blair & Co. Ltd (N° 1918) When made 1921  
 Boilers made at Stockton By whom made James Riley & Co. Ltd (N° 5250) When made 1920  
 Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS MAIN AUXILIARY OR DONKEY. Manufacturers of Steel James John Spencer & Son Ltd

Letter for record (S) Total Heating Surface of Boilers 975  $\phi$  Is forced draft fitted no No. and Description of  
 Boilers One single ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 2.6.20

No. of Certificate 6131 Can each boiler be worked separately Area of fire grate in each boiler 34.3  $\phi$  No. and Description of

safety valves to each boiler 2 direct spring Area of each valve 7.07  $\phi$  Pressure to which they are adjusted 105 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 2'-0" Mean dia. of boilers 10'-6" Length 10'-0"

Material of shell plates steel Thickness  $\frac{9}{16}$  Range of tensile strength 28-32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams 2 R. lap long. seams 2 R. lap Diameter of rivet holes in long. seams  $\frac{13}{16}$  Pitch of rivets 4 1/2

Top of plates on width of butt straps 8 1/2 x 3/4 Per centages of strength of longitudinal joint rivets 92.0 Working pressure of shell by plate 81.9

rules 100 Size of manhole in shell 19" x 15" Size of compensating ring 7 1/2" No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 39" Length of plain part top 75" Thickness of plates crown 5/8 bottom 104" bottom 1/2 man

Description of longitudinal joint Wild No. of strengthening rings none Working pressure of furnace by the rules 125 Combustion chamber

plates: Material steel Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 3/4 Pitch of stays to ditto: Sides 9 1/2 x 9 Back 9 x 10

Top 9 1/2 x 9 If stays are fitted with nuts or riveted heads none Working pressure by rules 115 Material of stays steel Area at

smallest part 1.19 Area supported by each stay 90 Working pressure by rules 106 End plates in steam space: Material steel Thickness 29/32

Pitch of stays 18 1/2 x 15 How are stays secured none 7 x 3/4 Working pressure by rules 116 Material of stays steel Area at smallest part 3.67

Area supported by each stay 370 Working pressure by rules 103 Material of Front plates at bottom steel Thickness 29/32 Material of

Lower back plate steel Thickness 29/32 Greatest pitch of stays 15" x 10" Working pressure of plate by rules 175 Diameter of tubes 3 1/4

Pitch of tubes 4 1/2 x 4 1/2 Material of tube plates steel Thickness: Front 29/32 Back 5/8 Mean pitch of stays 11 3/8 Pitch across wide

water spaces 14" Working pressures by rules 108 Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 6 1/2 x 1 1/2 Length as per rule 28" Distance apart 9 1/2" Number and pitch of Stays in each 2 @ 9"

Working pressure by rules 111 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 RILEY The foregoing is a correct description,

Is the approved plan of boiler forwarded herewith yes

Total No. of visits 9 Return for duplicate Boiler

Dates During progress of work in shops - - - 18.29.20, 16.19.20, 27.10.20, 7.21.20, 2.22.20  
 while During erection on board vessel - - -

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. The boiler will be fitted on board at this port. The boiler has now been satisfactorily secured on board, examined under steam and safety valves adjusted

Survey Fee ... £ 3-5-0 When applied for, Monthly  
 Travelling Expenses (if any) £ When received, 19

Committee's Minute

Assigned

TUE. 15 MAR. 1921

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

Lloyd's Register  
 Foundation

W304-0177