

REPORT ON BOILERS.

No. 10711
WED. JUN. 9 1920

Received at London Office

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

MULTITUBULAR BOILERS — MAIN AUXILIARY OR DONKEY. — Manufacturers of Steel Thos John Spencer & Co. Ltd

Letter for record (S) Total Heating Surface of Boilers 975 sq ft 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 yes Area of fire grate in each boiler 34.3 sq ft No. and Description of safety valves to each boiler 2 direct spring Area of each valve 7.07 sq in 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 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 B. 2 Riv^s Diameter of rivet holes in long. seams 13/16" Pitch of rivets 4 1/2"

Lap of plates on width of butt straps 8 1/2 x 9/16" Per centages of strength of longitudinal joint rivets 92.0 Working pressure of shell by rules 100 Size of manhole in shell 19" x 15" Size of compensating ring 7 x 3/4" riv^s No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 39" Length of plain part 75" Thickness of plates crown 5/8" bottom 1/2" mean

Description of longitudinal joint Weld 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 nuts 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 nuts 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 1/4" 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 & CO. LTD. The foregoing is a correct description, W. J. H. Manufacturer.

Dates of Survey: During progress of work in shops - Mar 18, 29, Apr 16, 19, 23, 27, May 7, 21, June 2 while building board vessel - - -
 Is the approved plan of boiler forwarded herewith yes Total No. of visits 9 Return for duplicate Boiler

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 TUE. 15 MAR. 1921

Assigned _____
 Wm Morrison
 Lloyd's Register of Shipping.

W304-0177

