

## REPORT ON BOILERS.

No. 11135

Date of writing Report 23.10.21 When handed in at Local Office 25.10.21 19 Port of Middlesbrough  
No. in Survey held at Stockton-on-Tees Date, First Survey 5 April 1921 Last Survey 21 Oct 1921  
Reg. Book. 6591 on the Steel screw Trawler "OTHELLO" (Number of Visits 16) Gross 201 Tons Net 94  
Master Built at Selby By whom built Lochran & Sons When built 1907-10  
Engines made at Hull By whom made C.D. Holmes & Co When made 1907  
Boilers made at Stockton By whom made Thomas Riley Bros Ltd (No 5323) When made 1921  
Registered Horse Power Owners Mr. Alfred Bannister Port belonging to Grimsby

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Thomas John Spencer &amp; Son Ltd.

Letter for record (S) Total Heating Surface of Boilers 1295  $\frac{1}{2}$  Is forced draft fitted No. and Description of Boilers One single ended Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 21.10.21  
No. of Certificate 6248 Can each boiler be worked separately Area of fire grate in each boiler 36  $\frac{1}{2}$  No. and Description of safety valves to each boiler Area of each valve Pressure to which they are adjusted  
Are they fitted with easing gear 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 Inside Mean dia. of boilers 12'-6" Length 18'-0"  
Material of shell plates Steel Thickness  $1\frac{1}{2}$ " 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  $1\frac{1}{2}$ " Pitch of rivets  $7\frac{1}{2}$ "  
Lap of plates or width of butt straps 16 x 1" out Per centages of strength of longitudinal joint rivets 89.6 Working pressure of shell by plate 85.09  
Size of manhole in shell 19 x 15 Size of compensating ring 7 x 1" No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 45 Length of plain part top 69" Thickness of plates crown  $1\frac{1}{16}$ " bottom  $100\frac{1}{2}$ " bottom  $7\frac{1}{8}$ " man  
Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 180 Combustion chamber plates: Material steel Thickness: Sides  $2\frac{1}{32}$ " Back  $2\frac{1}{32}$ " Top  $2\frac{1}{32}$ " Bottom 1" Pitch of stays to ditto: Sides  $8\frac{1}{2}$ " x  $9\frac{1}{2}$ " Back  $9\frac{1}{2}$ " x  $8\frac{1}{2}$ "  
Top  $8\frac{1}{2}$ " x  $9\frac{1}{2}$ " If stays are fitted with nuts or riveted heads nuts Working pressure by rules 183 Material of stays steel Area at smallest part 2.03 Area supported by each stay 79.56 Working pressure by rules 230 End plates in steam space: Material steel Thickness  $1\frac{1}{2}$ "  
Pitch of stays 17 x 16 How are stays secured nuts + washers Working pressure by rules 184 Material of stays steel Area at smallest part 5.05  
Area supported by each stay 272 Working pressure by rules 173 Material of Front plates at bottom steel Thickness  $1\frac{1}{2}$ " Material of rear back plate steel Thickness  $1\frac{1}{2}$ " Greatest pitch of stays 14 x  $8\frac{3}{8}$ " Working pressure of plate by rules 276 Diameter of tubes  $3\frac{1}{2}$ "  
Pitch of tubes  $4\frac{1}{2}$ " x  $4\frac{3}{4}$ " Material of tube plates steel Thickness: Front  $1\frac{1}{2}$ " Back  $2\frac{1}{32}$ " Mean pitch of stays  $11\frac{3}{32}$ " Pitch across wide plate spaces 15 x  $4\frac{3}{4}$ " Working pressures by rules 193 Girders to Chamber tops: Material steel Depth and thickness of order at centre 9 x  $1\frac{1}{2}$ " Length as per rule 31 Distance apart 2" Number and pitch of Stays in each 2 @  $9\frac{1}{2}$ "  
Working pressure by rules 228 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

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

Manufacturer.

Dates During progress of work in shop 1921. Apr 5. 8. 11. 20. 27. 29. Jul 24. Aug 9. Sept 5. 8. 12. 16. Is the approved plan of boiler forwarded herewith 23. 28. Oct 6. 21. yes  
Total No. of visits 16

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

TUES. 1 MAR 1927

TUES. 30 AUG 1927

TUES. 2 NOV 1926

FRI. 12 APR 1929

Wm Morrison  
Engineer Surveyor to Lloyd's Register of Shipping

TUE JAN 20 1923

TUE FEB 20 1923

TUES. 7 OCT 1924

FRI. 25 SEP 1925

FRI. 24 JUL 1925

TUES. 19 JAN 1926

TUES. 4 MAY 1926

FRI. 9 JUL 1926

Lloyd's Register  
Foundation