

REPORT ON BOILERS

No. 10625

FRI MAR 26 1920

Received at London Office

When handed in at Local Office 20. 3. 20 Port of Middlesbrough
 Survey held at Stockton-on-Tees Date, First Survey Included in Engine Test Survey 15th March 1920
 on the Donkey Boiler for the S.S. TIBERTON (S.S. No. 679) Tons Gross
 Built at Stockton By whom built Richardson Duck & Co When built 1920
 made at Stockton By whom made Messrs Blair & Co Lim. When made 1920
 made at Stockton By whom made Messrs Blair & Co Lim. (E 1070) When made 1920
 red Horse Power Owners Messrs R. Chapman & Son Part belonging to Newcastle

TITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel Messrs John Spencer & Sons Ltd

for record (S) Total Heating Surface of Boilers 1290 Is forced draft fitted no No. and Description of
One single ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 5.12.19
 Certificate 6062 Can each boiler be worked separately ✓ Area of fire grate in each boiler 33.7 No. and Description of
 valves to each boiler 2 direct spring Area of each valve 7.07 Pressure to which they are adjusted 105 lb
 fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no
 distance between boilers or uptakes and bunkers or woodwork On upper deck External dia. of boilers 12'-0" Length 10'-0"
 Material of shell plates steel Thickness 2 1/32" Range of tensile strength 28-32 Are the shell plates welded or flanged no
 of riveting: cir. seams 2 R-lap long. seams 2 B-2 Riv Diameter of rivet holes in long. seams 15/16" Pitch of rivets 5 9/16"
 plates or width of butt straps 10 1/4" x 5/8" Per centages of strength of longitudinal joint rivets 84.5 Working pressure of shell by
110 Size of manhole in shell 19" x 15" Size of compensating ring 4 1/2" x 1" No. and Description of Furnaces in each
2 plain Material steel Outside diameter 41 1/2" Length of plain part top 67 1/2" Thickness of plates crown } 17"
 description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 108 Combustion chamber bottom } 32"
 Material steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 9/16" Pitch of stays to ditto: Sides 9 3/4" x 9 3/4" Back 9 3/4" x 9 3/4"
 if stays are fitted with nuts or riveted heads nuts Working pressure by rules 114 Material of stays steel Area at
 part 1.41 Area supported by each stay 95.06 Working pressure by rules 118 End plates in steam space: Material steel Thickness 27/32"
 of stays 19" x 16" How are stays secured nuts & washers Working pressure by rules 109 Material of stays steel Area at smallest part 3.26
 supported by each stay 323 Working pressure by rules 105 Material of Front plates at bottom steel Thickness 13/16" Material of
 back plate steel Thickness 3/4" Greatest pitch of stays 14" x 9 3/4" Working pressure of plate by rules 134 Diameter of tubes 3 1/2"
 of tubes 4 1/2" x 4 1/2" Material of tube plates steel Thickness: Front 13/16" Back 3/4" Mean pitch of stays 10 7/8" Pitch across wide
 spaces 14 1/4" Working pressures by rules 116 Girders to Chamber tops: Material steel Depth and thickness of
 at centre 7 1/8" x 15" Length as per rule 28 1/2" Distance apart 9 3/4" Number and pitch of Stays in each 209 1/2"
 Working pressure by rules 116 Steam dome: description of joint to shell none % of strength of joint

REHEATER. 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,
Geo. Attship Manufacturer.

During progress of work in shops -- } See report on Engines.
 During erection on board vessel -- }
 Survey Fee ... £ _____ When applied for, _____ 19
 Travelling Expenses (if any) £ _____ When received, _____ 19

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. It has now been satisfactorily secured on board, examined under steam and safety valves adjusted.

Survey Fee ... £ _____ When applied for, _____ 19
 Travelling Expenses (if any) £ _____ When received, _____ 19

Committee's Minute
 signed See Mr. G. E. G. attached
W433-0061

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

