

REPORT ON BOILERS.

No. 10178

Received at London Office

of writing Report 101 When handed in at Local Office 13/8/18 Port of Middlesbrough
 in Survey held at Stockton on Tees Date, First Survey 10th May Last Survey 9th Aug 1918
 Book. S/S ~~Ordnance~~ "ORTONA" (Number of Visits 12) Tons } Gross
 on the Built at Biddeford By whom built P. Cook & Son When built 1919
 Lines made at By whom made Messrs Plenty & Son Ltd When made
 Boilers made at Stockton By whom made Messrs Riley Bros. Ltd (No. 5104) When made 1918
 Registered Horse Power Owners P. Cook & Son Port belonging to Biddeford

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

Number for record (5) Total Heating Surface of Boilers 1271 Is forced draft fitted
 Boilers One single ended Working Pressure 180 Tested by hydraulic pressure to 300 Date of test 9.8.18
 of Certificate 5918 Can each boiler be worked separately Area of fire grate in each boiler 38 No. and Description of
 valves to each boiler Area of each valve Pressure to which they are adjusted
 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 dia. of boilers 12'-0" Length 11'-0"
 Material of shell plates steel Thickness 31/32 Range of tensile strength 28-32 Are the shell plates welded or flanged no
 Grip. of riveting: cir. seams 2: 2: lap long. seams 2: B-3 Riv Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 7 7/8
 of plates or width of butt straps 15 3/4 x 1 5/16 Per centages of strength of longitudinal joint rivets 80.5 Working pressure of shell by
180 Size of manhole in shell 19" x 15" Size of compensating ring 7" x 1" metal No. and Description of Furnaces in each
 or 2 Morrison Material steel Outside diameter 4 1/2 Length of plain part top Thickness of plates crown 7/16
 Description of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 190 Combustion chamber
 plates: Material steel Thickness: Sides 5/8 Back 2 1/32 Top 5/8 Bottom 1 3/16 Pitch of stays to ditto: Sides 9" x 8" Back 8 1/4 x 9 3/4
8" x 8" If stays are fitted with nuts or riveted heads nut Working pressure by rules 183 Material of stays steel Area at
 smallest part 1.73 Area supported by each stay 72 Working pressure by rules 193 End plates in steam space: Material steel Thickness 1"
 of stays 6 x 1 5/8 How are stays secured nuts & 6 x 3/4" washers Working pressure by rules 188 Material of stays steel Area at smallest part 4.57
 supported by each stay 2.61 Working pressure by rules 182 Material of Front plates at bottom steel Thickness 1" Material of
 rear back plate steel Thickness 1" Greatest pitch of stays 14 x 9 3/4 Working pressure of plate by rules 238 Diameter of tubes 3 1/2
 of tubes 5 x 4 3/4 Material of tube plates steel Thickness: Front 1" Back 1 3/16 Mean pitch of stays 11 1/4 Pitch across wide
 spaces 15" Working pressures by rules 181 Girders to Chamber tops: Material steel Depth and thickness of
 at centre 10" x 1 3/4 Length as per rule 36" Distance apart 8" Number and pitch of Stays in each 3 @ 8"
 Working pressure by rules 181 Steam dome: description of joint to shell none % of strength of joint
 Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
 of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,

Manufacturer.

During progress of 1918: May 10, 14, 17, June 25, July 6, 9, 12 Is the approved plan of boiler forwarded herewith yes
 work in shops - - - 18, 23, 30 Aug. 2, 9
 During erection on Total No. of visits 12
 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 & workmanship and on completion was tested by hydraulic pressure with satisfactory results.

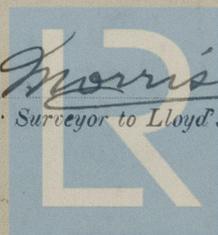
The above Boiler has now been fitted in above vessel.

Survey Fee ... £ 4 : 5 : 0 When applied for, Monthly A/c
 Travelling Expenses (if any) £ : : When received, 191

Committee's Minute

TUE. 18 FEB. 1919

Engineer Surveyor to Lloyd's Register of Shipping.



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