

FRI. OCT. 18. 1912

Old. Rpt. 25456

No. 7128.

REPORT ON BOILERS.

Received at London Office FRI. SEP. 6 - 1912

pt. 5a.

Description of Ship *5/9/12* When handed in at Local Office *1.9.12* Port of *MIDDLESBROUGH-ON-TEES.*
No. in Survey held at *Stockton* Date, First Survey *23rd July* Last Survey *29th Aug. 1912*
Reg. Book. *SS "LAERTIS"* (Number of Visits *8*) Gross *3914*
Length on the *SS "LAERTIS"* (SS No. *637*) Tons Net *2380*
Master *S. Hanos* Built at *Sunderland* By whom built *Sir Jas. Laing & Sons Ltd* When built *1912*
Rivets *S. Hanos* when made *1912*
Plates *Sunderland* By whom made *George Black Ltd* when made *1912*
Stays *Stockton* By whom made *Messrs Riley Bros Ltd (4441)* when made *1912*
Boilers made at *Stockton* Owners *G. C. Dracoulis* Port belonging to *Ithaca*
Registered Horse Power

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. - Manufacturers of, Steel *John Spencer & Sons Ltd*
Letter for record *(5) Total Heating Surface of Boilers 1010 sq. ft.* Is forced draft fitted *No* No. and Description of
Boilers *One S.E. Cyl. Mult.* Working Pressure *100 lb.* Tested by hydraulic pressure to *200 lb.* Date of test *29.8.12*
No. of Certificate *4933* Can each boiler be worked separately *✓* Area of fire grate in each boiler *35 sq. ft.* No. and Description of
Safety valves to each boiler *Two direct spring.* Area of each valve *594 sq. in.* Pressure to which they are adjusted *103*
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 or uptakes and bunkers or woodwork *16"* Int. Mean dia. of boilers *10'-6"* Length *10'-6"*
Material of shell plates *Steel* Thickness *9/16"* Range of tensile strength *29-33* Are the shell plates welded or flanged *No*
Descrip. of riveting: cir. seams *B.R. Lap.* long. seams *B.R. 3 Rivets* Diameter of rivet holes in long. seams *7/16"* Pitch of rivets *4 1/2"*
Gap of plates or width of butt straps *8 1/2" x 9/16"* Per centages of strength of longitudinal joint *81.9* Working pressure of shell by
Rules *103 lb.* Size of manhole in shell *16" x 12"* Size of compensating ring *7" x 3/4" McNeil* No. and Description of Furnaces in each
Boiler *Two plain* Material *Steel* Outside diameter *39"* Length of plain part *110"* Thickness of plates *32"* crown *9/16"* bottom *68 Mean*
Description of longitudinal joint *Welded* No. of strengthening rings *✓* Working pressure of furnace by the rules *115 lb.* Combustion chamber
Plates: Material *Steel* Thickness: Sides *9/16"* Back *9/16"* Top *9/16"* Bottom *3/4"* Pitch of stays to ditto: Sides *11" x 8 3/4"* Back *10" x 10 1/2"*
Top *11 1/4" x 8"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *104* Material of stays *Steel* Diameter at
Smallest part *1.48"* Area supported by each stay *105* Working pressure by rules *112* End plates in steam space: Material *Steel* Thickness *32"*
Pitch of stays *18" x 16"* How are stays secured *by nuts* Working pressure by rules *117* Material of stays *Steel* Diameter at smallest part *3.26"*
Area supported by each stay *297* Working pressure by rules *114* Material of Front plates at bottom *Steel* Thickness *32"* Material of
Lower back plate *Steel* Thickness *32"* Greatest pitch of stays *13" x 10 1/2"* Working pressure of plate by rules *177* Diameter of tubes *3 1/4"*
Pitch of tubes *4 1/2" x 4 3/8"* Material of tube plates *Steel* Thickness: Front *3/32"* Back *3/4"* Mean pitch of stays *11 1/16"* Pitch across wide
Water spaces *14"* Working pressures by rules *111 lb.* Girders to Chamber tops: Material *Steel* Depth and thickness of
Girders at centre *6" x 1 1/2"* Length as per rule *27"* Distance apart *11 1/4"* Number and pitch of Stays in each *2 @ 8"*
Working pressure by rules *100 lb.* Superheater or Steam chest; how connected to boiler *None* Can the superheater be shut off and the boiler worked
separately *✓* Diameter *✓* Length *✓* Thickness of shell plates *✓* Material *✓* Description of longitudinal joint *✓* Diam. of rivet
Holes *✓* Pitch of rivets *✓* Working pressure of shell by rules *✓* Diameter of flue *✓* Material of flue plates *✓* Thickness *✓*
If stiffened with rings *✓* Distance between rings *✓* Working pressure by rules *✓* End plates: Thickness *✓* How stayed *✓*
Working pressure of end plates *✓* Area of safety valves to superheater *✓* Are they fitted with easing gear *✓*

The foregoing is a correct description,
FOR RILEY & CO. (ENGINEERS) LTD. Manufacturer.

Dates of Survey *19th July, 23rd Aug., 1st, 8th, 13th, 16th, 29th.* Is the approved plan of boiler forwarded herewith *yes*
while building *During erection on board vessel - - -* Sep 21, 26, Oct 5/11 Total No. of visits *8*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This boiler has been constructed under Special Survey, is of good material and workmanship, and has been tested by hydraulic pressure with satisfactory results. - (Safety washers: F 1 1/2. A 3/8)*
The boiler has been satisfactorily fixed on the main deck of the vessel and the safety valves adjusted.
Survey Fee *£ 3 - 7 - 0* When applied for, *19*
Travelling Expenses (if any) *£* : : : When received, *19*
Survey *REQUEST*
NO. *ATTACHED*
hewish Davis.
W. Morrison

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute
Assigned

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