

REPORT ON BOILERS.

No. 13350

FRI. 27 SEP 1907

Received at London Office

Date of writing Report 20th Sept, 1907. Port of WEST HARTLEPOOL
 No. in Survey held at West Hartlepool Date, First Survey 29th April, 07 Last Survey 12th July 1907
 Reg. Book. (Number of Visits 37) Gross 8839.63
 Tons Net 2464.84
 Name of vessel Steel Screw Steamer "Maylands"
 Master J.P. Thomas Built at West Hartlepool By whom built Wray & Co Ltd When built 1907
 Engines made at West Hartlepool By whom made Central Marine & Wks when made 1907
 Boilers made at West Hartlepool By whom made Central Marine & Wks when made 1907
 Registered Horse Power Owners Wilson Shipping Co. Ltd (Joseph F. Wilson & Co) Port belonging to West Hartlepool

Census 216

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. - Manufacturers of Steel D Williams
 Letter for record S Total Heating Surface of Boilers 642 sq ft Is forced draft fitted No No. and Description of Boilers Single ended two furnaces Working Pressure 100 lb Tested by hydraulic pressure to 200 lb Date of test 12/7/07
 No. of Certificate 3116 Can each boiler be worked separately Yes Area of fire grate in each boiler 26.4 sq ft No. and Description of Safety valves to each boiler Two Spring Area of each valve 7.07 sq in Pressure to which they are adjusted 103 lb
 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 ^{Casings} bunkers or woodwork 22' Mean dia. of boilers 10'0" Length 9'0"
 Material of shell plates Steel Thickness 10/16" Range of tensile strength 27-30 Are the shell plates welded or flanged both
 Description of riveting: cir. seams Yes long. seams all chip all Diameter of rivet holes in long. seams 14/16" Pitch of rivets 3 5/8"
 Spacing of plates or width of butt straps 10" Per centages of strength of longitudinal joint rivets 78.5% plate 75.5% Working pressure of shell by rules 103 lb Size of manhole in shell 16" x 12" Size of compensating ring 32" x 28" x 12/16" No. and Description of Furnaces in each boiler Two Stain Material Steel Outside diameter 36" Length of plain part ^{top} 5'4 1/2" Thickness of plates ^{crown} 1/2" ^{bottom} 1/2"
 Description of longitudinal joint Welded No. of strengthening rings Yes Working pressure of furnace by the rules 116 lb Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 10/16" Pitch of stays to ditto: Sides 9'0" Back 9'0" Top 9'0" If stays are fitted with nuts or riveted heads No Working pressure by rules 100 lb Material of stays Steel Diameter at smallest part 1 1/2" Area supported by each stay 9'0" Working pressure by rules 105 lb End plates in steam space: Material Steel Thickness 2 3/8" Pitch of stays 14" How are stays secured all nut Working pressure by rules 118 lb Material of stays Steel Diameter at smallest part 1 1/2" Area supported by each stay 14' 2" Working pressure by rules 115 lb Material of Front plates at bottom Steel Thickness 2 3/8" Material of lower back plate Steel Thickness 2 3/8" Greatest pitch of stays 14" Working pressure of plate by rules 100 lb Diameter of tubes 3 1/2" Pitch of tubes 14 1/2" Material of tube plates Steel Thickness: Front 2 3/8" Back 10/16" Mean pitch of stays 15 1/2" x 9" Pitch across wide inter spaces 14" Working pressures by rules 101 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 1/2" x 1 1/2" Length as per rule 27' Distance apart 9' Number and pitch of Stays in each two 9'0" Working pressure by rules 104 lb Superheater or Steam chest; how connected to boiler 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 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 THE CENTRAL MARINE ENGINE WORKS

Manufacturer.

John B. Williams

Is the approved plan of boiler forwarded herewith

Dates of Survey } During progress of work in shops - - } 1907 - Apr. 29, May 2, 26, 29, 31, June 3, 5, 7, 10, 13, 14, 16, 17, 22, 23, 24, 27, 28, 30, 31, June 4, 5
 while building } During erection on board vessel - - - } 6, 10, 11, 12, 13, 14, 17, 21, 24, 26, July 3, 5, 8, 10, 11, 12

Total No. of visits 37

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. Workmanship Good.)

This donkey boiler has been constructed under special survey in accordance with the approved rules and tested by hydraulic pressure and found tight and sound. It has now been efficiently placed on board the above named steamer

Survey Fee £ 2 : 2 : 0 } When applied for, 26/9 1907
 Travelling Expenses (if any) £ : : } When received, 28/9 1907

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

Committee's Minute TUES. 1 OCT 1907

Assigned

