

REPORT ON BOILERS.

No. 14442

Received at London Office MON. JUL. 1-1912

Date of writing Report 21 June 1912 When handed in at Local Office 24 June 1912 Port of West Hartlepool
 Description of Ship Steel Steamer Penobscot Date, First Survey 1st May Last Survey 22 June 1912
 No. in Survey held at West Hartlepool (Number of Visits 15)
 Length on the Steel Steamer Penobscot
 Built at West Hartlepool By whom built W. Gray & Co. Ltd When built 1912
 Engines made at West Hartlepool By whom made Central Marine & Wks when made 1912
 Boilers made at West Hartlepool By whom made Central Marine & Wks when made 1912
 Registered Horse Power _____ Owners W.B. Chellier Port belonging to Falmouth

Laminar 2235

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY. — Manufacturers of Steel Spanner Iron

Letter for record 5 Total Heating Surface of Boilers 724 sq ft Is forced draft fitted Yes No. and Description of Boilers One single ended Working Pressure 100 lb Tested by hydraulic pressure to 200 lb Date of test 30/5/12
 No. of Certificate 3285 Can each boiler be worked separately Yes Area of fire grate in each boiler 25.5 sq ft No. and Description of Safety valves to each boiler Two Spring Area of each valve 7.07 sq ft 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 Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers 10.0" Length 10.0"
 Material of shell plates Steel Thickness 10/16" Range of tensile strength 24/30 Are the shell plates welded or flanged both
 Descrip. of riveting: cir. seams _____ long. seams all strip all Diameter of rivet holes in long. seams 14/16" Pitch of rivets 3 3/4"
 Gap of plates or width of butt straps 9/16" Per centages of strength of longitudinal joint rivets 76.3 Working pressure of shell by rules 105 lb Size of manhole in shell 16" x 12" Size of compensating ring 7" x 1 1/2" No. and Description of Furnaces in each boiler Two Plain Material Steel Outside diameter 35 1/2" Length of plain part top 76 1/2" Thickness of plates crown 17/32" bottom 17/32"
 Description of longitudinal joint Welded No. of strengthening rings _____ Working pressure of furnace by the rules 112 lb Combustion chamber plates: Material Steel Thickness: Sides 19/32" Back 19/32" Top 19/32" Bottom 10/16" Pitch of stays to ditto: Sides 9 7/8" Back 11 1/2" x 10"
 Top 9" If stays are fitted with nuts or riveted heads Multi Working pressure by rules 100 lb Material of stays Steel Diameter at smallest part 1 3/8" Area supported by each stay 11 1/2" x 9 7/8" Working pressure by rules 105 lb End plates in steam space: Material Steel Thickness 23/32"
 Pitch of stays 17 1/2" x 10" How are stays secured all nuts Working pressure by rules 100 lb Material of stays Steel Diameter at smallest part 1 7/8"
 Do. 5189 Area supported by each stay 17 1/2" x 10" Working pressure by rules 114 lb Material of Front plates at bottom Steel Thickness 23/32" Material of lower back plate Steel Thickness 23/32" Greatest pitch of stays 14" Working pressure of plate by rules 100 lb Diameter of tubes 3 1/2"
 Pitch of tubes 4 7/8" x 4 1/2" Material of tube plates Steel Thickness: Front 23/32" Back 10/16" Mean pitch of stays 13 1/2" x 9" Pitch across wide water 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 1/4" Length as per rule 26" Distance apart 9" Number and pitch of Stays in each one
 Working pressure by rules 106 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 _____ 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 THE CENTRAL MARINE ENGINE WORKS
Manufacturers.

Dates of Survey 1912
 During progress of work in shops May 1-3-7-8-9-13-15-16-20-21-22-23-24-30 June 22.
 while building (During erection on board vessel - - -)
 Is the approved plan of boiler forwarded herewith Yes
 Total No. of visits 15.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This donkey boiler has been constructed under special survey in accordance with the approved plans and tested by hydraulic pressure and found tight and sound. It has now been efficiently fitted in the stokehold of the above vessel.

Survey Fee ... £ 2 : 2 : When applied for Monthly %
 Travelling Expenses (if any) £ : : When received 19

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

Committee's Minute TUE. JUL. 2-1912
 Assigned

