

REPORT ON BOILERS.

No. 8120

WED. SEP. 11. 1912

Received at London Office

Date of writing Report 4-9-1912 When handed in at Local Office Belfast 10. Port of Belfast
 No. in Survey held at Belfast Date, First Survey 30 June 1911 Last Survey 3 Sept 1912
 Reg. Book. S.S. Vestris (Number of Visits 112) Gross 10494
 on the S.S. Vestris Tons Net 6622
 Master Belfast Built at Belfast By whom built Workman Clark & Co. L^{td} When built 1912
 Engines made at Belfast By whom made Workman Clark & Co. L^{td} when made -
 Boilers made at Belfast By whom made Workman Clark & Co. L^{td} when made -
 Registered Horse Power - Own Liverpool Register Rules Plate & N. Sea L^{td} Port belonging to Liverpool

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY - Manufacture of Steel

Letter for record S Total Heating Surface of Boilers 2058 sq ft Is forced draft fitted No No. and Description of Boilers One - Cylindrical Single Ended Working Pressure 215 lbs Tested by hydraulic pressure to 430 lbs Date of test 29-2-12
 No. of Certificate 449 Can each boiler be worked separately ✓ Area of fire grate in each boiler 52 1/2 sq ft No. and Description of Safety valves to each boiler 2, 1 foot Spring Area of each valve 5 9/4 sq Pressure to which they are adjusted 215 lbs
 Are they fitted with easing gear Yes 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 4 ft 6 in Mean dia. of boilers 14'-6" Length 11'-0"
 Material of shell plates Steel Thickness 1 1/2 Range of tensile strength 28-32 tons Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams Lap Dr. S. long. seams Butt Suckle Diameter of rivet holes in long. seams 1 1/2 Pitch of rivets 10 1/2
of plates or width of butt straps 23 7/16 Per centages of strength of longitudinal joint rivets 88' 9 Working pressure of shell by rules 252 lbs Size of manhole in shell 16" x 12" Size of compensating ring M. Neils No. and Description of Furnaces in each boiler 3 - Moroccan Material Steel Outside diameter 46 1/2 Length of plain part 4 Thickness of plates 45 crown 64 bottom 251 lbs combustion chamber
 Description of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 251 lbs
 Plates: Material Steel Thickness: Sides 2 1/2 Back 2 1/2 Top 2 1/2 Bottom 2 1/2 Pitch of stays to ditto: Sides 8 3/4 x 16 1/2 Back 9 x 14
 Top 8 1/2 x 16 1/2 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 233 lbs Material of stays Steel Diameter at smallest part 1 1/2 to 1 3/8 Area supported by each stay 63 sq Working pressure by rules 251 lbs End plates in steam space: Material Steel Thickness 1 1/4
 Pitch of stays 17 1/2 x 16 How are stays secured Nuts & Washers Working pressure by rules 215 lbs Material of stays Steel Diameter at smallest part 2 1/8 to 3 5/16
 Area supported by each stay Various Working pressure by rules 312 lbs Material of Front plates at bottom Steel Thickness 1 1/4 Material of Lower back plate Steel Thickness 3 1/2 Greatest pitch of stays 14 1/2 Working pressure of plate by rules 224 lbs Diameter of tubes 3 1/4
 Pitch of tubes 4 1/2 x 4 1/2 Material of tube plates Steel Thickness: Front 1 1/4 Back 1 3/16 Mean pitch of stays 9 x 9 Pitch across wide water spaces 14 1/2 Working pressures by rules 221 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 4 1/8 x (3/4 x 2) Length as per rule 28 1/2 Distance apart 4 1/8 Number and pitch of Stays in each 2-8 1/2
 Working pressure by rules 219 lbs 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 WORKMAN, CLARK & CO., LIMITED
 M. H. Bell. Manufacturer.

Is the approved plan of boiler forwarded herewith Yes
 Total No. of visits -

Dates of Survey: During progress of work in shops - - -
 while building - - -
 See other sheet

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 See other sheet.

Survey Fee ... £ See other sheet
 Travelling Expenses (if any) £ See other sheet

A. J. Bonfield & A. J. Hodges
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. SEP. 13. 1912

Assigned

List of Woukeef Pumps

1	Ballast Pump	10" x 11" x 10"	Duplex
2	Wear Feed	14" x 10 1/2" x 20"	
1	Aux ⁴	6" x 4 1/2" x 6"	
1	Sanitary	4" x 4" x 8"	
1	General Service	11" x 7 1/2" x 15"	
1	Ash Ejector	-	-
1	Fresh Water	4" x 4" x 5"	
1	Cattle	6" x 4 1/2" x 6"	

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