

REPORT ON BOILERS.

No. 34181

WED. 10. OCT. 1917

pt. 5a.

22 Sep 1917 Christopher Dixon
Glasgow
Date, First Survey 26th July Last Survey 14th Oct 1917
Number of Visits 29
Gross 151.718
Net
Marine Boiler designated No 1639. by Christopher Dixon
Built at Lillies By whom built Archibald Ross & Co
When built 1918-1
By whom made Crossley Bros
When made 1918-1
By whom made Lindsay Burnett & Co
When made 1918-1
Owners British Admiralty
Port belonging to
Registered Horse Power 87

ULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel
Letter for record S Total Heating Surface of Boilers 1440 sq ft Is forced draft fitted
One single ended Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 21/9/17
No. of Certificate 13918 Can each boiler be worked separately one Area of fire grate in each boiler 480 sq ft No. and Description of
Safety valves to each boiler Area of each valve Pressure to which they are adjusted
Are 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
Material of shell plates Steel Thickness 1 1/4 Range of tensile strength 28/32 Are the shell plates welded or flanged No
Description of riveting: cir. seams Lap & Riv long. seams Lap Riv. Butts Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 9
Width of butt straps 1 1/2 Per centages of strength of longitudinal joint rivets 91.4 Working pressure of shell by
Size of manhole in shell 16" x 12" Size of compensating ring 3 1/4 x 2 1/2 x 1 1/4 No. and Description of Furnaces in each
Three plain Material Steel Outside diameter 40" Length of plain part top 80" Thickness of plates crown 3 1/16 bottom 3 1/16
Description of longitudinal joint Welded No. of strengthening rings Working pressure of furnace by the rules 205 lbs Combustion chamber
Material Steel Thickness: Sides 3/4 Back 1/2 Top 3/4 Bottom 3/4 Pitch of stays to ditto: Sides 8 1/2 x 9 1/2 Back 8 1/2 x 9 1/2
11 x 8 1/2 1/2 stays are fitted with nuts or riveted heads Lugs Working pressure by rules 202 lbs Material of stays Steel Area
Smallest part 203 sq in Area supported by each stay 8/32 in Working pressure by rules 205 lbs End plates in steam space: Material Steel Thickness 1 1/2
Pitch of stays 18 1/2 x 18 1/2 How are stays secured Double nut & wash Working pressure by rules 205 lbs Material of stays Steel Area
Area supported by each stay 272 sq in Working pressure by rules 228 lbs Material of Front plates at bottom Steel Thickness 1 1/16 Material of
Lower back plate Steel Thickness 1 1/16 Greatest pitch of stays 9 1/4 x 1 1/4 Working pressure of plate by rules 234 lbs Diameter of tubes 3 1/2
Pitch of tubes 4 1/2 x 4 1/4 Material of tube plates Steel Thickness: Front 1 1/16 Back 1 1/8 Mean pitch of stays 10" Pitch across wide
Water spaces 14" Working pressures by rules 300 lbs Girders to Chamber tops: Material Steel Depth and thickness of
Order at centre 10 1/2 x 1 x 2 Length as per rule 36.25 in Distance apart 11" Number and pitch of Stays in each Three at 8 1/2
Working pressure by rules 200 lbs Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked
Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
Stays 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,
Lindsay Burnett & Co Manufacturer.
No. 1962 attached

Dates During progress of 1914 Feb. 26, Mar. 6, 12, 22, 24 Apr. 3, 16, 24, 28 May 4, 11 Is the approved plan of boiler forwarded herewith Yes.
Survey work in shops - - -
While During erection on 15, 21, 28 June 4, 9, 16, 25, July 3, 9, 27 Aug 2, 29 Sep 6, 13, 19, 24 Total No. of visits 29
Building board vessel - - - Oct. 4

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under
special survey in accordance with the approved plan the workmanship and material is good
and the boiler in my opinion is suitable for a working pressure of 200 lbs per square inch.
The boiler is intended for an Admiralty Squader of the Mersey type building by the Goole
Shipbuilding Co & is being sent to Goole. This Boiler has been fitted & secured on board the above
handed vessel with safety valves adjusted under steam

Survey Fee ... £ 6 : 10 : When applied for, 9. 10. 1917
Travelling Expenses (if any) £ : : When received, 11. 11. 1917

Committee's Minute GLASGOW 9 - OCT. 1917 TUE. JAN. 22 1918.
Assigned TRANSMIT TO LONDON
Peter W. Chegor.
Engineer Surveyor to Lloyd's Register of Shipping.
Frank A. King