

# REPORT ON BOILERS.

No. 22659

MUN. 27 JUN 1910  
11 JUN 1910

Received at London Office

Date of writing Report 10 When handed in at Local Office 16<sup>th</sup> June 1910 Port of Hull  
 No. in Survey held at Hull Date, First Survey Sep 1/09. Last Survey 10<sup>th</sup> June 1910  
 Reg. Book. 15 on the Steel S.S. Dewsbury (Number of Visits) Gross 1631 Tons Net 878  
 Master Steel S.S. Dewsbury Built at Hull By whom built Messrs Earles & Co. Ltd. When built 1910  
 Engines made at Hull By whom made Messrs Earles & Co. Ltd. when made 1910  
 Boilers made at Hull By whom made Messrs Earles & Co. Ltd. when made 1910  
 Registered Horse Power                      Owners Great Central Railway Port belonging to Grimby

## MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. - Manufacturers of Steel Messrs W. Beardmore & Co.

(Letter for record (a)) Total Heating Surface of Boilers 530  $\phi$  Is forced draft fitted No No. and Description of Boilers One cyl. Multi. Single End Working Pressure 100 lbs Tested by hydraulic pressure to 200 lbs Date of test 14-3-10  
 No. of Certificate 1736 Can each boiler be worked separately                      Area of fire grate in each boiler 26  $\phi$  No. and Description of safety valves to each boiler Two Spring Area of each valve 4.90  $\square$  Pressure to which they are adjusted 100 lbs  
 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 15  $\square$  Int Mean dia. of boilers 8'-9" Length 8'-0"  
 Material of shell plates Steel Thickness 5/8 Range of tensile strength 28-32 Are the shell plates welded or flanged No  
 Descrip. of riveting: cir. seams L.D. long. seams D.B.S.D.R. Diameter of rivet holes in long. seams 7/8 Pitch of rivets 3 5/8  
 Lap of plates or width of butt straps 8 1/2 Per centages of strength of longitudinal joint rivets 76.2 Working pressure of shell by rules 127 lbs Size of manhole in shell 19" x 15" Size of compensating ring 42" x 7/8" No. and Description of Furnaces in each boiler Two plain Material Steel Outside diameter 2'-8" Length of plain part top 5'-8 3/4" Thickness of plates crown 1/2" bottom 1/2"  
 Description of longitudinal joint Welded No. of strengthening rings 0 Working pressure of furnace by the rules 123 lbs Combustion chamber plates: Material Steel Thickness: Sides 5/8 Back 5/8 Top 5/8 Bottom 5/8 Pitch of stays to ditto: Sides 8 3/4 Back 9" x 8 1/2" Top 9 1/2 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 176 lbs Material of stays Iron Diameter at smallest part 1 3/8 Area supported by each stay 76.5 Working pressure by rules 176 lbs End plates in steam space: Material Steel Thickness 1 1/8 Pitch of stays 14" x 13" How are stays secured D. Nuts Working pressure by rules 162 lbs Material of stays Iron Diameter at smallest part 2 1/8 Area supported by each stay 182 Working pressure by rules 138 lbs Material of Front plates at bottom Steel Thickness 1 3/8 Material of Lower back plate Steel Thickness 1 3/8 Greatest pitch of stays 9" x 8 1/2" Working pressure of plate by rules 297 lbs Diameter of tubes 3" Pitch of tubes 4 1/4" x 4 1/4" Material of tube plates Steel Thickness: Front 1 3/8 Back 25/32 Mean pitch of stays 10 5/8 Pitch across wide water spaces 13" Working pressures by rules 140 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6" x 1 1/4" Length as per rule 1'-7 3/32 Distance apart 9 1/2" Number and pitch of Stays in each one  
 Working pressure by rules 141 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,  
F. J. Salethorpe Manufacturer.

Dates of Survey                      During progress of work in shops - - - See Machinery Report. Is the approved plan of boiler forwarded herewith SECRETARY. Yes  
 while building                      During erection on board vessel - - -                      Total No. of visits                     

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under special survey in accordance with the Rules the materials and workmanship are good. The boiler tested by hydraulic pressure, secured on board, tested under steam and found satisfactory, reliable in my opinion to be classed, with notation :- L.M. 6610 as per machinery report.

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

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

Committee's Minute TUES. 28 JUN 1910  
 Assigned See Minute on attached sp  
Hull 22659

