

# REPORT ON BOILERS.

No. 278

Received at London Office

24/12/18

Date of writing Report 15/7 1918 When handed in at Local Office 15/7 1918 Port of Sheffield  
 No. in Survey held at Oldbury Date, First Survey 31/1/18 Last Survey 13/7 1918  
 Reg. Book. on the Admiralty Drifter Boiler D115. No Node  
 Master Built at Lowestoft By whom built Colly Bros Ltd. When built 1918  
 Engines made at South Bridge By whom made Dollitt & Higgell Ltd When made 1918  
 Boilers made at Oldbury By whom made Messrs Edwin Danks & Co. Ltd. When made 1918  
 Registered Horse Power Owners British Admiralty. Port belonging to

**MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel John Spencer & Co. Ltd.  
 Letter for record S Total Heating Surface of Boilers 814 sq ft Is forced draft fitted   
 Boilers One S.E. Cyl. Multitubular Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 13-5-18  
 No. of Certificate 389 Can each boiler be worked separately  Area of fire grate in each boiler 30 sq ft No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 3.98 sq in Pressure to which they are adjusted 150 lb  
 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 6 in Mean dia. of boilers 10' 0" Length 9' 6"  
 Material of shell plates Steel Thickness 27/32 in Range of tensile strength 28/32 Are the shell plates welded or flanged Flanged  
 Descrip. of riveting: cir. seams Double Riv. long. seams D.B. Triple Diameter of rivet holes in long. seams 5/16 in Pitch of rivets 7 in  
 Lap of plates or width of butt straps 1 3/4 in Per centages of strength of longitudinal joint rivets 86.9 Working pressure of shell by rules 182 lb Size of manhole in shell 16" x 12" Size of compensating ring 6" x 3 3/4" No. and Description of Furnaces in each boiler Two plain Material Steel Outside diameter 3' 2" Length of plain part 6' 0 1/2" Thickness of plates crown 1 1/8 in bottom 1 1/8 in  
 Description of longitudinal joint welded No. of strengthening rings 1 1/2 Working pressure of furnace by the rules 180 lb Combustion chamber plates: Material Steel Thickness: Sides 9/16 in Back 9/16 in Top 9/16 in Bottom 9/16 in Pitch of stays to ditto: Sides 7 1/2 in Back 7 1/2 in  
 Top 8 in If stays are fitted with nuts or riveted heads nuts Working pressure by rules 182 lb Material of stays Steel Diameter at smallest part 1 1/2 in Area supported by each stay 7 1/2 x 7 1/2 in Working pressure by rules 200 lb End plates in steam space: Material Steel Thickness 3/8 in  
 Pitch of stays 4 x 14 in How are stays secured DN 1/2 in Working pressure by rules 150 lb Material of stays Steel Diameter at smallest part 3/4 in  
 Area supported by each stay 196 sq in Working pressure by rules 152 lb Material of Front plates at bottom Steel Thickness 7/8 in Material of Lower back plate Steel Thickness 7/8 in Greatest pitch of stays 13 1/4 x 7 1/2 in Working pressure of plate by rules 229 lb Diameter of tubes 3 1/4 in  
 Pitch of tubes 4 1/2 x 4 1/2 in Material of tube plates Steel Thickness: Front 7/8 in Back 1 1/8 in Mean pitch of stays 9 1/8 in Pitch across wide water spaces 1 3/4 in Working pressures by rules 180 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 x 1 1/2 in Length as per rule 28 3/4 in Distance apart 7 in Number and pitch of Stays in each Two - 8 in  
 Working pressure by rules 190 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 EDWIN DANKS & COMPANY (OLDBURY) LIMITED.  
 Manufacturer.  
Edwin Danks & Co. Ltd.  
 Manager.

Dates of Survey while building: During progress of work in shops -- 2/1, 13/2, 20/2, 7/3, 19/3, 11/4, 24/4, 13/5/18  
 During erection on board vessel --- June 15, July 12, Sep 14, 25, Oct 2, 8, 10, 11, 12, 16  
 Is the approved plan of boiler forwarded herewith   
 Total No. of visits 18

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) This vessel has been built under special survey, the material tested in accordance with the Rules and the workmanship is good

Survey Fee ... £ 4 : 10.0 } When applied for, May 14 1918  
 Travelling Expenses (if any) £ 2/10 } When received, 9.7.18  
F. W. Martin & A. R. Farmer  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. 3 JAN. 1919  
 Assigned

