

## REPORT ON BOILERS.

No. 30075  
THU. AUG. - 2 1917.

Received at London Office

Date of writing Report 26.7.17 1917 When handed in at Local Office 31.7.1917 Port of Hull  
 No. in Survey held at Hull Date, First Survey Apr 2/17 Last Survey July 30<sup>th</sup> 1917  
 Reg. Book. on the Boiler for s. trawler John Pascoe (Number of Visits 27) Tons { Gross 325 Net 131  
 Master Built at Lelby By whom built Graham & Sons Ltd When built 1917-7  
 Engines made at Halifax By whom made Campbell Gas Eng Co Ltd 109562 When made 1917-7  
 Boilers made at Hull By whom made C. D. Holmes & Co Ltd 10A2 When made 1917-7  
 Registered Horse Power Owners British Admiralty Port belonging to -

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

Letter for record S ) Total Heating Surface of Boilers 1440<sup>sq</sup> Is forced draft fitted no No. and Description of Boilers one single ended Working Pressure 200 lbs Tested by hydraulic pressure to 400 Date of test 30.6.17  
 No. of Certificate 3222 Can each boiler be worked separately Area of fire grate in each boiler 48<sup>sq</sup> No. and Description of safety valves to each boiler two spring loaded Area of each valve 4.9<sup>sq</sup> Pressure to which they are adjusted 205  
 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 8 1/2" Bl. lapped Mean dia. of boilers 165" Length 10'-6"  
 Material of shell plates steel Thickness 1 5/16" Range of tensile strength 28-32 Are the shell plates welded or flanged no  
 Descrip. of riveting: cir. seams double long. seams J. P. D. B. S Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 3/4"  
 Lap of plates or width of butt straps 18" Per centages of strength of longitudinal joint rivets 85.9 plate 85.6 Working pressure of shell by rules 202 Size of manhole in shell 16" x 12" Size of compensating ring 7" x 1 5/8"  
 No. and Description of Furnaces in each boiler three plain Material steel Outside diameter 40" Length of plain part top 78 1/2" bottom 69" Thickness of plates crown 2 1/8" bottom 2 1/16"  
 Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 206 Combustion chamber plates: Material steel Thickness: Sides 3/4" Back 2 3/32" Top 3/4" Bottom 3/4" Pitch of stays to ditto: Sides 10" x 8" Back 9 3/4" x 8 3/4"  
 Top 11" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 208 Material of stays steel Diameter at smallest part 2.07" Area supported by each stay 58<sup>sq</sup> Working pressure by rules 211 End plates in steam space: Material steel Thickness 1 3/32"  
 Pitch of stays 9" x 1 5/8" How are stays secured D. H. & W. Working pressure by rules 210 Material of stays steel Diameter at smallest part 7.5"  
 Area supported by each stay 335 Working pressure by rules 233 Material of Front plates at bottom steel Thickness 1 5/16" Material of Lower back plate steel Thickness 1 5/16" Greatest pitch of stays 13 3/4" x 9 7/8" Working pressure of plate by rules 216 Diameter of tubes 3 1/2"  
 Pitch of tubes 4 1/2" Material of tube plates steel Thickness: Front 1 5/16" + 3/4" Back 7/8" Mean pitch of stays 10" Pitch across wide water spaces 14" Working pressures by rules 275 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 11" x 1 3/4" Length as per rule 36.21A Distance apart 11" Number and pitch of Stays in each three 8"  
 Working pressure by rules 201 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,  
p. pro CHARLES D. HOLMES & CO., LTD.

W. Cooper Manufacturer.

Dates of Survey { During progress of 1917: - Apr 2, 11, 13, 18, 26, May 2, 12, 15, 21, 23 Is the approved plan of boiler forwarded herewith Forwarded with  
 while work in shops - 26, 31, Jun 4, 11, 14, 23, 30, Jul 3, 5, 10, 13  
 building { During erection on 18, 19, 21, 23, 24, 30 Total No. of visits 27 John Zule 18/7/17  
 board vessel - - - }

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c.)

This boiler has been constructed under special survey in accordance with the approved plan & the rules of this Society the materials & workmanship are good. It has been tested by hydraulic pressure as above found sound & tight. The boiler has been properly fitted secured on board the vessel & its safety valves adjusted under steam.

Survey Fee ... £ 6 : 10 : } When applied for, 1-8-1917  
 Travelling Expenses (if any) £ : 12 : 3 } When received, 31.8.1917

Frank A. Stanger  
 Engineer, Surveyor to Lloyd's Register of British and Foreign Shipping.  
 FRI. AUG. 31 1917

Committee's Minute FRI. AUG. - 3 1917.

Assigned