

# REPORT ON BOILERS.

No. 35076  
WED. APR. 28. 1915

Date of writing Report 23. 4. 1915 When handed in at Local Office 23. 4. 1915 Port of Glasgow.  
 No. in Survey held at Glasgow. Date, First Survey 3/11/14 Last Survey 22. 4. 1915  
 Reg. Book. Boiler No. 660. St. Wheatloaf (Number of Visits 12) Gross Tons }  
 on the Master Built at Ardrossan. By whom built Anderson, D. D. & S. B. Co. (No. 213) Net Tons }  
 Engines made at Glasgow. By whom made A. W. Dalgleish (No. 660) When made 1915.  
 Boilers made at Glasgow. By whom made A. W. Dalgleish (No. 660) When made 1915.  
 Registered Horse Power Owners Port belonging to

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Stul Co. of Scotland, D. Colville

(Letter for record S.) Total Heating Surface of Boilers 2000 sq. ft. Is forced draft fitted No. and Description of Boilers One single ended marine Working Pressure 135 lbs. Tested by hydraulic pressure to 240 lbs. Date of test 22. 4. 15

No. of Certificate 13104 Can each boiler be worked separately Area of fire grate in each boiler 60.2 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 Mean dia. of boilers 14'-6" Length 10'-6"

Material of shell plates steel Thickness 29 Range of tensile strength 28/32 Are the shell plates welded or flanged No.  
 Descrip. of riveting: cir. seams D. R. long. seams T. R. D. B. S. Diameter of rivet holes in long seams 15/16 Pitch of rivets 6/8

Top of plates width of butt straps 13 3/4 Per centages of strength of longitudinal joint rivets 85.5 plate 85.8 Working pressure of shell by rules 135 lbs. Size of manhole in shell 16" x 12" Size of compensating ring 6" x 1"

boiler 3 plain Material steel Outside diameter 3'-10" Length of plain part top 6'-8" Thickness of plates crown 5/16" bottom 4'-2" bottom 5/16"  
 Description of longitudinal joint weld No. of strengthening rings nil Working pressure of furnace by the rules 138 lbs. Combustion chamber

plates: Material steel Thickness: Sides 9/16" Back 1/2" Top 9/16" Bottom 1" Pitch of stays to ditto: Sides 8 x 8 1/2" Back 4 1/2 x 8"  
 Top 4 1/2 x 8 1/2" If stays are fitted with nuts or riveted heads Working pressure by rules 144 lbs. Material of stays steel Diameter at

smallest part 1.24 Area supported by each stay 68 Working pressure by rules 145 lbs. End plates in steam space: Material steel Thickness 13/16" Diameter at smallest part 2.66"  
 Pitch of stays 14 x 14 1/2" How are stays secured D. N. S. Working pressure by rules 145 lbs. Material of stays steel Diameter at smallest part 2.66"

Area supported by each stay 203 Working pressure by rules 135 lbs. Material of Front plates at bottom steel Thickness 3/4" Material of lower back plate steel Thickness 7/8" Greatest pitch of stays 13 1/2 x 8" Working pressure of plate by rules 154 lbs. Diameter of tubes 3 1/2"

Pitch of tubes 4 1/4 x 4 5/8" Material of tube plates steel Thickness: Front 3/4" Back 2 1/32" Mean pitch of stays 9 1/2 x 14 1/4" Pitch across wide  
 water spaces 14 x 1 1/2" Working pressures by rules 182 lbs. Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 4 1/2 x 1 1/2" (Angle) length as per rule 2'-4 13/16" Distance apart 4 1/2" Number and pitch of Stays in each 2-8 1/2 x 4 1/4"  
 Working pressure by rules 135 lbs. Superheater or Steam chest; how connected to boiler None 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

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

Survey request form No. 1620 attached The foregoing is a correct description, A. W. Dalgleish, Manufacturers

Dates of Survey During progress of work in shops - 1914 Nov 29-16 Dec 2-16 1915 Jan 12-28 Feb 3-19 Is the approved plan of boiler forwarded herewith Yes  
 while building During erection on board vessel - March 27-Apr 9-22 Total No. of visits 12

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The material and workmanship are good. This boiler has been built under special survey and will be fitted aboard at Ardrossan. This boiler has been fitted on board the above vessel (Glasgow Report 35489)

Survey Fee ... £ 6.13.0 When applied for  
 Travelling Expenses (if any) £ : : When received 101

MONTHLY ACCOUNT.

P. J. Brown

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping. Glasgow 5 - OCT. 1915

See minute on Gls. Rpt. 35489



W481-0154

Committee's Minute GLASGOW 27 APR. 1915  
 Assigned TRANSMIT TO LONDON