

## REPORT ON BOILERS.

No. 36610

17 JAN. 1917

Received at London Office

Date of certifying Report 1917 When handed in at Local Office 1917 Port of Glasgow  
 No. in Survey held at Glasgow Date, First Survey 1st March 1916 Last Survey 10th January 1917  
 Reg. Book. on the Boiler No 688 for SS No 19 "Strade" (Number of Visits 31) Tons 31 Gross  
 Master Alloa Built at Alloa By whom built A. Jeffrey & Co (No 19) When built 1910  
 Engines made at Alloa By whom made Alloa When made 1917  
 Boilers made at Glasgow By whom made A. & W. Dalgleish When made 1917  
 Registered Horse Power 13655 Owners Alloa Port belonging to Alloa

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel 10 Colville & Sons Ltd

(Letter for record S) Total Heating Surface of Boilers 1300 ft Is forced draft fitted No. and Description of  
 Boilers one, single ended Working Pressure 135 lb Tested by hydraulic pressure to 270 lb Date of test 16.1.17  
 No. of Certificate 13655 Can each boiler be worked separately Area of fire grate in each boiler 44.5 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 12' 0" Length 10' 0"  
 Material of shell plates Steel Thickness 3/32" Range of tensile strength 28/32 Are the shell plates welded or flanged No  
 Descrip. of riveting: cir. seams PR long. seams TRDBS Diameter of rivet holes in long. seams 7/8" Pitch of rivets 6 5/8"  
 Lap of plates or width of butt straps 12 3/4" Per centages of strength of longitudinal joint 86.3 Working pressure of shell by  
 rules 139 Size of manhole in shell 16 x 12 Size of compensating ring 2' 4" x 2' 0" x 1' No. and Description of Furnaces in each  
 boiler 3 Plain Material Steel Outside diameter 37" Length of plain part top 83 1/2" Thickness of plates crown 4 1/2"  
 Description of longitudinal joint weld No. of strengthening rings Working pressure of furnace by the rules 136 Combustion chamber  
 plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 15/16" Pitch of stays to ditto: Sides 8 x 8 1/2" Back 8 1/2 x 7 1/2"  
 Top 9 x 8 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 143 Material of stays Steel Diameter at  
 smallest part 1 1/4" Area supported by each stay 6.8 ft Working pressure by rules 162 End plates in steam space: Material Steel Thickness 7"  
 Pitch of stays 16 x 16 How are stays secured by nuts Working pressure by rules 142 Material of stays Steel Diameter at smallest part 3 1/4"  
 Area supported by each stay 2.56 ft Working pressure by rules 139 Material of Front plates at bottom Steel Thickness 3" Material of  
 Lower back plate Steel Thickness 3" Greatest pitch of stays 13 1/8" Working pressure of plate by rules 174 Diameter of tubes 3 1/4"  
 Pitch of tubes 1 1/2 x 4 3/8 Material of tube plates Steel Thickness: Front 3/4" Back 2 1/32" Mean pitch of stays 10" Pitch across wide  
 water spaces 14" Working pressures by rules 207 Girders to Chamber tops: Material Steel Depth and thickness of  
 girder at centre 7 3/4" x 11 1/2" Length as per rule 28' 8" Distance apart 9" Number and pitch of Stays in each Two 8 1/2"  
 Working pressure by rules 135 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

Survey request form

No. 1809 attached

The foregoing is a correct description,

A. &amp; W. Dalgleish, Manufacturer.

Dates of Survey During progress of 1916 Mar. 1-9-10-13-21-29-30 Apr. 5-21-24 May 5-11-24-30 June 14-22-28 Is the approved plan of boiler forwarded herewith Yes  
work in shops - -  
while During erection on July 10-14-26-28 Aug. 1-3-9-29 Sept. 6-13-20-25 Oct. 3-19-14 Jan. 9-10 Total No. of visits 31  
building board vessel - -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The workmanship & materials  
are good, the boiler has been built under special survey.

Boiler will be forwarded to Alloa

Survey Fee ... £ 4 : 7 : } When applied for, 191  
 Travelling Expenses (if any) £ : : } When received, 191

MONTHLY ACCOUNT.

Committee's Minute GLASGOW

16 JAN. 1917

FRI 13 APR. 1917

Assigned TRANSMIT TO LONDON

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register  
Foundation

003572-003580-0076