

REPORT ON BOILERS.

No. 36610

REC'D. 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 S/S "Strade" (Number of Visits 31) Tons } Gross
 Master Alloa Built at Alloa By whom built A Jeffrey & Co (No 19) When built
 Engines made at Alloa By whom made 100 When made
 Boilers made at Glasgow By whom made A & W Dalgleish When made 1917
 Registered Horse Power _____ Owners _____ Port belonging to _____

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel W Colville & Son Ltd

(Letter for record S) Total Heating Surface of Boilers 1300 sq 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 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 12' 0" Length 10' 0"

Material of shell plates Steel Thickness 35/32" 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"

Gap of plates or width of butt straps 12 3/4" Per centages of strength of longitudinal joint _____ 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 _____ Thickness of plates crown 4 1/2" bottom 6 1/4"

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 68 sq in 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 256 sq in 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 14 1/2 x 4 3/8" Material of tube plates Steel Thickness: Front 3/4" Back 21/32" 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 1 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. & W. Dalgleish Manufacturer. \$

Dates of Survey while building	During progress of work in shops - -	<u>1916 Mar. 1-9-10-13-21-29 Apr. 5-21-27 May 5-11-24-30 Jun. 14-22-28</u>	Is the approved plan of boiler forwarded herewith <u>Yes</u>
	During erection on board vessel - -	<u>July 10-14-26-28 Aug. 1-3-9-29 Sept. 6-13-20-25 Oct. 3-19-14 Jan. 9-10</u>	
Total No. of visits			<u>31</u>

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, 101

Travelling Expenses (if any) £ : : } When received, 101

MONTHLY ACCOUNT.

Committee's Minute **GLASGOW** 16 JAN. 1917
Assigned TRANSMIT TO LONDON

FRI 13 APR 1917

