

Book. on the *Double Reductio Geared Lumber for D.W. Henderson* Date, First Survey *Nov. 1921* Last Survey *January 3rd 1921*
 (Number of Visits *43*) Gross *8709* Tons
 W652-0161

REPORT ON BOILERS.

No. 41586

t. 5a.

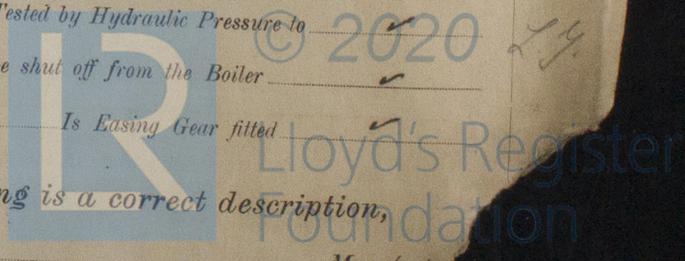
of writing Report *13. 12. 1921* When handed in at Local Office *13. 12. 1921* Port of *Edinburgh* Received at London Office *WED. DEC. 14 1921*
 in Survey held at *Edinburgh* Date, First Survey *24th Dec 1919* Last Survey *9 Dec 1921*
 on the *S.S. "Hogarth"* (Number of Visits *53*) Gross *8709* Tons Net *5050*
 Built at *Edinburgh* By whom built *D.W. Henderson Co Ltd* When built *1921*
 Lines made at *Belfast* By whom made *Harland & Wolff Ltd* When made *1921*
 Deckers made at *Edinburgh* By whom made *D.W. Henderson & Co Ltd.* When made *1921*
 Registered Horse Power Owners *Lampert & Holt.* Port belonging to *Liverpool*

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. - Manufacturers of Steel *Blair & Sons, J. Spence*

Letter for record *S* Total Heating Surface of Boilers *1857.8* Is forced draft fitted *No* No. and Description of Boilers *1 Single ended multitubular* Working Pressure *215* Tested by hydraulic pressure to *378* Date of test *30-8-20*
 of Certificate *15451* Can each boiler be worked separately *Yes* Area of fire grate in each boiler *149.95* No. and Description of safety valves to each boiler *Two spring loaded* Area of each valve *5.93 sq ft* Pressure to which they are adjusted *220 lbs*
 they fitted with easing gear *Yes* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *Yes*
 Smallest distance between boilers or uptakes and bunkers or woodwork *8"* Mean dia. of boilers *14'-0"* Length *10'-6"*
 Material of shell plates *S* Thickness *1 1/32"* Range of tensile strength *29-33* Are the shell plates welded or flanged *No*
 Description of riveting: cir. seams *L.D.R* Long. seams *T.R.D.B.S.* Diameter of rivet holes in long. seams *1 1/32"* Pitch of rivets *9/8"*
 Width of butt straps *19 1/16"* Per centages of strength of longitudinal joint rivets *85.93* Working pressure of shell by rules *225*
 Size of manhole in shell *16" x 12"* Size of compensating ring *2-11 x 2-7 x 1 1/32"* No. and Description of Furnaces in each boiler *3 Corrugated* Material *S* Outside diameter *3'-8 1/2"* Length of plain part top *✓* Thickness of plates crown *21"* bottom *32"*
 Description of longitudinal joint *weld* No. of strengthening rings *None* Working pressure of furnace by the rules *226* Combustion chamber plates: Material *S* Thickness: Sides *2 1/32"* Back *2 1/32"* Top *2 1/32"* Bottom *7/8"* Pitch of stays to ditto: Sides *7 1/4 x 5 1/2"* Back *9 x 7 1/4"*
 If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *221* Material of stays *S* Area at smallest part *1.76*
 Area supported by each stay *65.8* Working pressure by rules *240* End plates in steam space: Material *S* Thickness *1 3/16"*
 Pitch of stays *18 x 17* How are stays secured *5/16" x 10"* Working pressure by rules *217* Material of stays *S* Area at smallest part *706*
 Area supported by each stay *306* Working pressure by rules *240* Material of Front plates at bottom *S* Thickness *7/8"* Material of lower back plate *S* Thickness *7/8"* Greatest pitch of stays *13 1/2"* Working pressure of plate by rules *231* Diameter of tubes *3 1/4"*
 Pitch of tubes *4 1/2" x 4 1/4"* Material of tube plates *S* Thickness: Front *7/8"* Back *13/16"* Mean pitch of stays *10 15/16"* Pitch across wide inter spaces *14 1/4"* Working pressures by rules *308* Girders to Chamber tops: Material *S* Depth and thickness of girder at centre *7 1/2" x 13 1/4"* Length as per rule *26 3/32"* Distance apart *8* Number and pitch of Stays in each *3 @ 7 3/4"*
 Working pressure by rules *263* Steam dome: description of joint to shell *✓* % of strength of joint *✓*
 Diameter *✓* Thickness of shell plates *✓* Material *✓* Description of longitudinal joint *✓* Diam. of rivet holes *✓*
 Pitch of rivets *✓* Working pressure of shell by rules *✓* Crown plates *✓* Thickness *✓* How stayed *✓*

SUPERHEATER. Type *✓* Date of Approval of Plan *✓* Tested by Hydraulic Pressure to *✓*
 Date of Test *✓* Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler *✓*
 Diameter of Safety Valve *✓* Pressure to which each is adjusted *✓* Is Easing Gear fitted *✓*

The foregoing is a correct description,



*50 Tubes (ordered by E.W.D.O.)
 100 Ferrules*

Manufactured by rules *✓* End plates in steam space by rules *✓* Material of stays *✓*