

Air Reservoirs

REPORT ON BOILERS.

No. 8467.

JAN 1922

Date of writing Report *5th Jan 1921* When handed in at Local Office *1921* Port of *Belfast*
 No. in Survey held at *Belfast* Date, First Survey *July 29,* Last Survey *Dec 8 1920.*
 Reg. Book. on the *Air Reservoirs for Harland & Wolff Ltd* (Number of Visits *11*) Gross *7424* Tons }
 Net *4494*
 Master *M.S. LINNELL* Built at *Bumbarton* By whom built *A. Mcmillan Sons* When built *1921*
 Engines made at *Glasgow* By whom made *Harland & Wolff Ltd* When made *192*
 Reservoirs made at *Belfast* By whom made *Harland & Wolff Ltd* When made *1920*
 Registered Horse Power _____ Owners _____ Port belonging to _____

~~MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY.~~ Manufacturers of Steel *P. Calville Sons Ltd*

Number for record *2* Total Heating Surface of Boilers _____ Is forced draft fitted _____ No. and Description of Boilers *2, cylindrical*
 Working Pressure *356 lbs* Tested by hydraulic pressure to *712 lbs* Date of test *22-12-20*
 Can each boiler be worked separately _____ Area of fire grate in each boiler _____ 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. *6'-0"* Length *18'-10 1/2"*
 Material of shell plates *Steel* Thickness *1 3/32"* Range of tensile strength *28-32 tons* the shell plates welded or flanged *No*
 Description of riveting: cir. seams *Lap double* long. seams *Butt double* Diameter of rivet holes in long. seams *1 7/8"* Pitch of rivets *8 3/8"*
 Width of butt straps *1 7/8"* Per centages of strength of longitudinal joint rivets *92.0* Working pressure of shell by rules *85.5*
 Size of manhole in *16" x 12"* Size of compensating ring *End flanged* No. and Description of Furnaces in each boiler _____
 Material _____ Outside diameter _____ Length of plain part _____ Thickness of plates crown _____ bottom _____
 Description of longitudinal joint _____ No. of strengthening rings _____ Working pressure of furnace by the rules _____ Combustion chamber _____
 Material _____ Thickness: Sides _____ Back _____ Top _____ Bottom _____ Pitch of stays to ditto: Sides _____ Back _____
 If stays are fitted with nuts or riveted heads _____ Working pressure by rules _____ Material of stays _____ Diameter at smallest part _____
 Area supported by each stay _____ Working pressure by rules _____ End plates in steam space: Material *Steel* Thickness *1 9/32" / 1 13/32"*
 How are stays secured *440 Radius* Working pressure by rules *as approved* Diameter at smallest part _____
 Area supported by each stay _____ Working pressure by rules _____ Material of Front plates at bottom _____ Thickness _____ Material of cover back plate _____
 Thickness _____ Greatest pitch of stays _____ Working pressure of plate by rules _____ Diameter of tubes _____
 Material of tube plates _____ Thickness: Front _____ Back _____ Mean pitch of stays _____ Pitch across wide _____
 Working pressures by rules _____ Girders to Chamber tops: Material _____ Depth and thickness of _____
 Length as per rule _____ Distance apart _____ Number and pitch of Stays in each _____
 Working pressure by rules _____ Superheater or Steam chest: how connected to boiler _____ Can the superheater be shut off and the boiler worked _____
 Diameter _____ Length _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet _____
 Pitch of rivets _____ Working pressure of shell by rules _____ Diameter of flue _____ Material of flue plates _____ Thickness _____
 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, For HARLAND & WOLFF Ltd. Manufacturer. *J. G. Hebble*

During progress of work in shops - - - *1920 July 29, Aug 16, 24, Oct. 12, 19, 25, 20/15,* Is the approved plan of boiler forwarded herewith _____
 During erection on board vessel - - - *24, Dec. 4, 7, 8.* Total No. of visits *11*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
These air reservoirs for Diesel Engines have been built under Special Survey. The materials and the workmanship are good description. They have been forwarded to Glasgow for the firm work.

Survey Fee ... £ *8.8.0* When applied for, *20/5/21*
 Travelling Expenses (if any) £ _____ When received, *25/1/21*

Committee's Minute *GLASGOW*
 Signed *Secy. R.N. 41636*
 10 JAN 1922
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.
 Lloyd's Register Foundation W500-0074