

Rpt. 5a.

# AIR RESERVOIRS. REPORT ON BOILERS.

No. 8851

THU. DEC. 21 1922

Received at London Office

Date of writing Report 7/12/1922. When handed in at Local Office

Port of Belfast.

No. in Survey held at Belfast Date, First Survey 1922 Oct 5 Last Survey Dec 6 1922

Reg. Book. on the Air Reservoirs for Harland &amp; Wolff's No 630D. (Number of Visits Four) Gross 4936

Master Built at Glasgow By whom built Harland &amp; Wolff Ltd. When built 1923

Engines made at Glasgow By whom made Harland &amp; Wolff Ltd. When made 1923

Boilers made at Belfast By whom made Harland &amp; Wolff Ltd. When made 1922.

Registered Horse Power 489 Owners David Mac Iver &amp; Co Ltd. Port belonging to Liverpool.

MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel D. Colville &amp; Sons Ltd.

(Letter for record) Total Heating Surface of Boilers Is forced draft fitted No. and Description of  
RESERVOIRS. 2 - Cylindrical Working Pressure 356 lbs Tested by hydraulic pressure to 585 lbs Date of test 5/12/22  
Boilers 6/2/22.

No. of Certificate Can each boiler be worked separately Area of fire grate in each boiler No. and Description of  
safety valves to each boiler 2 SPRING LOADED Area of each valve Pressure to which they are adjusted 360 lbs.

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 boiler 6'-0 3/8" Length 21'-0 1/16"

Material of shell plates Steel Thickness 1 1/2" Range of tensile strength 27-32 Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams Lap 266 long. seams D. butt tube Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 7 1/16"

width of butt straps 16 5/8" Per centages of strength of longitudinal joint rivets 89.5 plate 85.5 Working pressure of shell by rules

Size of manhole in shell 16" x 12" Size of compensating ring End flanged No. and Description of Furnaces in each boiler

Description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules Combustion chamber

plates: Material Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back

Top 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 1/2" 1 1/32"

Pitch of stays 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

Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes

Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays Pitch across wide

water spaces Working pressures by rules Girders to Chamber tops: Material Depth and thickness of

girder at centre 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

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

Dates of Survey During progress of work in shops - - Is the approved plan of boiler forwarded herewith Yes.

while building During erection on board vessel - - Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These Air Reservoirs, which are intended for a Diesel Engine vessel, have been built under Special Survey, & the materials and workmanship are of good description. They have been forwarded to Glasgow for fitting on board.

Survey Fee ... £ 8 : 8 : 0 When applied for, 20-12-1922, 1923. L. H. S. Travelling Expenses (if any) £ : : When received, 22-2-1923, 1923. J. M. S.

Committee's Minute GLASGOW 28 MAR 1923

Assigned See Gb. Rph. No. 42568.

H. P. Southwell L. H. S. Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation