

# REPORT ON BOILERS.

No. 40984  
WED. 20 APR. 1921

Received at London Office

Date of writing Report 4. 3. 1921 When handed in at Local Office 4. 3. 1921 Port of Glasgow.  
No. in Survey held at Coatbridge. Date, First Survey Jan'y 27<sup>th</sup> Last Survey 2<sup>nd</sup> Mar 1921  
Reg. Book. on the Air Reservoirs for Oil Engine. (Number of Visits 5) Gross Tons }  
Master Built at By whom built When built  
Engines made at Coatbridge. By whom made Wm Beardmore & Co. Ltd. 1921  
Boilers made at Coatbridge. By whom made Thomas Hudson Ltd. 1921  
Registered Horse Power Owners Port belonging to

**AIR RESERVOIRS**  
~~MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY.~~ Manufacturers of Steel Wm Beardmore & Co. Ltd.

Letter for record 6. Total Heating Surface of Boilers Is forced draft fitted No. and Description of  
3 Circular Air Reservoirs. Working Pressure 350 Tested by hydraulic pressure to 550. Date of test 2. 3. 21.

No. of Certificate 15425. 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 1/8 Reservoir. 3'-0" Length 6'-1 1/4"

Material of shell plates Steel. Thickness 5/8. Range of tensile strength 28/32 TONS. Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams S.R. Lap. long. seams D.R. D.B. S. Diameter of rivet holes in long. seams 7/8 Pitch of rivets 3 3/4"

Gap of plates or width of butt straps 8 1/8 Per centages of strength of longitudinal joint rivets 78.8. Working pressure of shell by rules 390. Size of manhole in END. 16" x 12" Size of compensating ring End flanged in 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 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 Area at smallest part

Area supported by each stay Working pressure by rules End plates as approved: Material S Thickness 13/16"

Pitch of stays How are stays secured Working pressure by rules 350 Material of stays Area at smallest part

Area supported by each stay Working pressure by rules Material of Front plates at bottom Thickness Material of

Lower back plates 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 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,  
FOR THOMAS HUDSON, LTD. R. Fleming Manufacturer.

Dates of Survey During progress of 1921 Jan 27 Feb 8. 23 Mar 1. 2. Is the approved plan of boiler forwarded herewith  
while building During erection on board vessel - - - Total No. of visits 5

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) These Reservoirs have been built under Special Survey in accordance with the Approved Plan and Rules of the Society. The materials & workmanship are good throughout. The Reservoirs are being dispatched to Cammell Laird & Co. Birkenhead.

Survey Fee ... £ 12 : 12 : } When applied for, 22/3/1921.  
Travelling Expenses (if any) £ : : } When received, 6/5/21-19  
Hon Secy to Rev. G. H. G.

Committee's Minute GLASGOW. 19 APR 1921  
Assigned TRANSMIT TO LONDON

John Barr.  
Engineer Surveyor to Lloyd's Register of Shipping.