

Rpt. 5a.

# REPORT ON BOILERS.

GLASGOW REPORT No. 45270  
No. 9375  
13 JUL 1925 30 DEC 1925

Date of writing Report 10-7-1925 When handed in at Local Office 11-7-1925 Port of Belfast  
No. in Survey held at Belfast  
Reg. Book. on the Two Air Receivers for the No. 8 KING MALCOLM (692M) Tons } Gross 506 4 Net 312 7  
Master Built at Glasgow By whom built D. W. Henderson & Co When built 1925  
Engines made at Glasgow By whom made Harland & Wolff Ltd When made 1925  
Boilers made at Belfast By whom made Harland & Wolff Ltd When made 1925  
Registered Horse Power Owners BRITISH MOTORSHIP CO LTD. Port belonging to LONDON

AIR RECEIVERS  
~~MULTITUBULAR BOILERS~~ MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel D. W. Henderson & Co.  
(Letter for record RECEIVERS. 2 Horizontal riveted. Total Heating Surface of Boilers Is forced draft fitted No. and Description of Boilers Working Pressure 356 lbs Tested by hydraulic pressure to 585 lbs Date of test 2-4-25  
marked on No. of Certificate 23 Can each boiler be worked separately Area of fire grate in each boiler No. and Description of safety valves to each boiler Two SPRING LOADED Area of each valve 7 1/2 Pressure to which they are adjusted 356 lbs/sq  
Are they fitted with easing gear No 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 RECEIVERS 6'-0 3/8" Length 21'-0 5/16"  
Material of shell plates Steel Thickness 1 3/8" Range of tensile strength 78-32 Are the shell plates welded or flanged No  
Descrip. of riveting: cir. seams D.R. long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 4 13/16"  
Gap of plates or width of butt straps 16 1/8" Per centages of strength of longitudinal joint rivets 98.5 Working pressure of shell by rules 380 lbs Size of manhole in shell and 16 x 18 Size of compensating ring None No. and Description of Furnaces in each boiler  
Description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules 360 1/5 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 Thickness  
Pitch of stays How are stays secured Working pressure by rules Material of stays 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

The foregoing is a correct description,  
FOR HARLAND AND WOLFF, LIMITED,  
F. E. KEBBECK Manufacturer.

Dates of Survey 1925 During progress of work in shops - 18.26.29 July 2 = 15 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 Receivers have been built under Special Survey. Materials & workmanship good, Hydraulic tests satisfactory. They are being shipped to Glasgow for installation in the vessel. These air receivers have now been fitted on board the above vessel in an efficient manner, examined under air pressure and safety valves adjusted to 356 lbs/sq. W. 7 1/2. A 5 1/8.

Survey Fee ... £ 8 : 8 : 0 When applied for, 10-7-1925  
Travelling Expenses (if any) £ : : 1 When received, 18.7.1925  
(Hon. Secy) W. Henderson & Co. Engineer Surveyors to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 29 DEC 1925

Assigned See Glasgow Report No. 45270  
W184-0182

Lloyd's Register Foundation