

Rpt. 5a.

# REPORT ON BOILERS.

No. 9462

20 NOV 1925

17 FEB 1926

Received at London Office

Date of writing Report 1911 When handed in at Local Office 19-11-1925 Port of Belfast

No. in Survey held at Belfast Date, First Survey 5<sup>th</sup> June, 1925 Last Survey 12<sup>th</sup> Nov. 1925

Reg. Book. on the Donkey Boiler for the New Steel No 5 "ONEBANK" (6849) Tons (Number of Visits 21) Gross 5754 Net

Master Built at Glasgow By whom built Harland & Wolff Ltd 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 Messrs Andrew Weir & Co (Bank Line) Ltd Port belonging to Glasgow.

MULTITUBULAR BOILERS — ~~MAIN, AUXILIARY OR~~ DONKEY. — Manufacturers of Steel Dechille & Sons Ltd

(Letter for record S) Total Heating Surface of Boilers 1510 sq ft Is forced draft fitted Yes No. and Description of Boilers One single Ended Working Pressure 110 lbs Tested by hydraulic pressure to 215 lbs Date of test 12-11-25

No. of Certificate 898 Can each boiler be worked separately Yes Area of fire grate in each boiler 44 sq ft No. and Description of safety valves to each boiler Two, SPRING LOADED Area of each valve 9.62 sq in Pressure to which they are adjusted 110 lbs/sq in

Are 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 2'-1" INSIDE diam. of boilers 13'-0" Length 11'-0"

Material of shell plates Steel Thickness 3/4" Range of tensile strength 28 & 32 tons 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 15/16" Pitch of rivets 6'8"

Gap of plates or width of butt straps 1'2 1/4" Per centages of strength of longitudinal joint rivets 116 Working pressure of shell by rules 120 lbs Size of manhole in shell 16" x 12" Size of compensating ring 20 3/4" x 28 3/4" x 3 1/4" No. and Description of Furnaces in each boiler 3 Corrugated Material Steel Outside diameter 3' 1/8" Length of plain part top 1' 1/2" bottom 1' 1/2" Thickness of plates crown 1/4" bottom 1/4"

Description of longitudinal joint weld. No. of strengthening rings Yes Working pressure of furnace by the rules 156 Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 3/4" Pitch of stays to ditto: Sides 8'4" x 8'8" Back 9' x 8'8"

Top 9' x 8'4" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 137 lbs Material of stays Steel Diameter at smallest part 1.22" Area supported by each stay 48.3 sq in Working pressure by rules 129 lbs End plates in steam space: Material Steel Thickness 3/8"

Pitch of stays 18' x 18" How are stays secured Nuts & Wash Working pressure by rules 122 lbs Material of stays Steel Diameter at smallest part 1.115"

Area supported by each stay 37.4 sq in Working pressure by rules 137 lbs Material of Front plates at bottom Steel Thickness 3/4" Material of Lower back plate Steel Thickness 3/4" Greatest pitch of stays 12' 3/4" x 8'8" Working pressure of plate by rules 190 lbs Diameter of tubes 3' 1/4"

Pitch of tubes 4'8" x 4'8" Material of tube plates Steel Thickness: Front 3/4" Back 3/4" Mean pitch of stays 8.92" Pitch across wide water spaces 1' 2 1/4" Working pressures by rules W.W.S. 134 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 2 @ 4" x 3 1/4" Length as per rule 2'-6" Distance apart 9'8" Number and pitch of Stays in each 3 @ 8'4"

Working pressure by rules 141 lbs Superheater or Steam chest: how connected to boiler none Can the superheater be shut off and the boiler worked separately Yes

holes	Diameter	Length	Thickness of shell plates	Material	Description of longitudinal joint	Diam. of rivet

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 Yes

The foregoing is a correct description,  
 FOR HARLAND AND WOLFF, LIMITED,  
Dechille Manufacturer.

Dates of Survey: During progress of work in shops - June 5-12-18-26 July 23 Aug 17-18-24 Sept 1-7-11 Is the approved plan of boiler forwarded herewith Yes

while building: During erection on board vessel - 14-18-25 Oct 1-2-12-16-23 Nov 3-12 = 21 Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.) This Boiler has been built under Special Survey. Materials & Workmanship good. Hydraulic test satisfactory. It has been shipped to Glasgow for installation in the vessel. This Boiler has now been fitted on board the above vessel in an efficient manner, it has been examined under steam and safety valves adjusted to 110 lbs/sq in

Survey Fee ... £ 10 : 2 : 0. When applied for, 19-11-1925

Travelling Expenses (if any) £ : : 1. When received, 12-12-1925

William Butler & A. M. Conrick  
 Engineer Surveyors to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 16 FEB 1926

Assigned See Glasgow Report No. 45400

FRI. 19 MAR 1926

Lloyd's Register Foundation

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