

Rpt. 5.

# REPORT ON BOILERS.

No. 2610

Port of Dublin

Received at London Office **TUES. 7 MAY 1907**

No. in Survey held at Dublin Date, first Survey 5<sup>th</sup> Mar Last Survey 25<sup>th</sup> April 1907  
 Reg. Book. Town of "SLANEY" (Number of Visits 11)  
 on the Slane Tons Gross  
 Master By whom built When built  
 Engines made at By whom made when made  
 Boilers made at Dublin By whom made Ros & Walpole Ltd when made 1907  
 Registered Horse Power Owners A Guinness Smt Co Ltd Port belonging to Dublin

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Co of Scotland.

for record S Total Heating Surface of Boilers 3950 sq ft Is forced draft fitted No No. and Description of Boilers one Scotch Marine Type Working Pressure 100 lbs Tested by hydraulic pressure to 200 lbs Date of test 25/4/07  
 of Certificate 3 Can each boiler be worked separately Yes Area of fire grate in each boiler 8.10 sq ft No. and Description of valves to each boiler Two - direct spring loaded Area of each valve 4.9 sq in Pressure to which they are adjusted not adjusted  
 they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes  
 least distance between boilers 12" and bunkers no woodwork 12" Mean dia. of boilers 6'6" Length 7'6"  
 Material of shell plates Steel Thickness 1/2" Range of tensile strength 28 to 32 tons Are the shell plates welded or flanged No.  
 Kind of riveting: cir. seams single long. seams double Diameter of rivet holes in long. seams 7/8" Pitch of rivets 3 5/16"  
 Width of butt straps 8 1/4" Per centages of strength of longitudinal joint rivets 80 Working pressure of shell by plate 71  
 Size of manhole in shell 14 1/2" x 10 1/2" Size of compensating ring 24 1/2" x 20 3/4" No. and Description of Furnaces in each boiler one Material steel Outside diameter 2'9" Length of plain part 5'1 1/2" Thickness of plates 1/2"  
 Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 132 lbs Combustion chamber Material steel Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 1/2" Pitch of stays to ditto: Sides 9 1/2" x 6 1/2" Back 8 1/2" x 8"  
8 1/2" x 8" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 100 lbs Material of stays steel Diameter at thickest part 1 7/8" Area supported by each stay 68 sq in Working pressure by rules 117 End plates in steam space: Material steel Thickness 1/2"  
 How are stays secured double nuts Working pressure by rules 106 Material of stays steel Diameter at smallest part 1 1/2"  
 Area supported by each stay 106 sq in Working pressure by rules 116 Material of Front plates at bottom steel Thickness 9/16" Material of back plate steel Thickness 1/2" Greatest pitch of stays 15" x 7" Working pressure of plate by rules 103 1/4 Diameter of tubes 1 3/4"  
 Material of tube plates steel Thickness: Front 9/16" Back 5/8" Mean pitch of stays 9 1/4" Pitch across wide end spaces 10" Working pressures by rules 172 lbs Girders to Chamber tops: Material steel Depth and thickness of girder at centre 4 1/2" x 2" Length as per rule 20" Distance apart 8 1/2" Number and pitch of Stays in each 2 at 8" pitch  
 Working pressure by rules 180 lbs Superheater or Steam chest: how connected to boiler Yes Can the superheater be shut off and the boiler worked separately Yes  
 Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivets  
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness  
 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

VERTICAL DONKEY BOILER— No. Description Manufacturers of steel  
 Made at By whom made When made Where fixed  
 Working pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves  
 No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can enter the donkey boiler  
 Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile strength  
 Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets  
 Kind of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates  
 Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace  
 Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown plates  
 Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

ROSS & WALPOLE, LIMITED, correct description, Ltd Manufacturer.

Dates of Survey During progress Managing Director 25. 28. April 2. 3. 5. 9. 11. 21. 24. 25 - 1907  
work in shops  
During erection on board vessel  
 Total No. of visits 11  
 This Boiler is intended for service in the Guinness Barge as a Spare Boiler when required.  
 Is the approved plan of main boiler forwarded herewith Yes  
 " " " donkey " "



DVB9A-0177

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

This Boiler has been built to the accompanying approved  
 The Material has been certified by the Society's Surveyors.  
 The workmanship is good.

*MW*

N.B. This Boiler is a duplicate to that built by Messrs J. & C. for the Clapped vessel "Barby" in 1902. Dub Report No 2092.

Certificate (if required) to be sent to the Dublin Surveyor.

The amount of Entry Fee...	£	:	:	When applied for.
Special ... ..	£	2	13-6	May 3 <sup>d</sup> 1907
Donkey Boiler Fee ...	£	:	:	When received.
Travelling Expenses (if any) £		:	10	May 1 <sup>st</sup> 1907

*Macwilliam*  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Assigned *not for class until yet*



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