

# REPORT ON BOILERS.

No. 25146  
TUES. 11 JUN 1907

Port of *Glasgow.*

Received at London Office

No. in Survey held at *Annan.*  
Reg. Book.

Date, first Survey *15 March* Last Survey *12 April* 1907

(Number of Visits)

on the *Donkey boiler for Messrs D. Rowan & Co. No 471.*

Tons }  
Gross  
Net

Master Built at By whom built When built

Engines made at *Glasgow* By whom made *Dava Rowan & Co. (No 471)* when made *1907*

Boilers made at *do* By whom made *do* when made

Registered Horse Power Owners Port belonging to

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

(Letter for record) Total Heating Surface of Boilers Is forced draft fitted No. and Description of

Boilers Working Pressure Tested by hydraulic pressure to Date of test

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 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 Mean dia. of boilers Length

Material of shell plates Thickness Range of tensile strength Are the shell plates welded or flanged

Descrip. of riveting: cir. seams long. seams Diameter of rivet holes in long. seams Pitch of rivets

Lap of plates or width of butt straps Per centages of strength of longitudinal joint rivets Working pressure of shell by

rules Size of manhole in shell Size of compensating ring No. and Description of Furnaces in each

boiler Material Outside diameter Length of plain part top 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 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

## VERTICAL DONKEY BOILER— No. 10474 Description *Cross tube* Manufacturers of steel *Wm Beardmore & Co*

Made at *Annan* By whom made *Cochrane & Co.* When made *1907* Where fixed *Sto Rethold*

Working pressure *80* tested by hydraulic pressure to *160* No. of Certificate *8888* Fire grate area *6* Description of safety valves *Spring loaded*

No. of safety valves *2* Area of each *3.14* Pressure to which they are adjusted *85* If fitted with easing gear *Yes* If steam from main boilers can

enter the donkey boiler *No.* Dia. of donkey boiler *3.6* Length *7.6* Material of shell plates *steel* Thickness *3/8* Range of tensile

strength *27-32* Descrip. of riveting long. seams *double* Dia. of rivet holes *23/32* Whether punched or drilled *drilled* Pitch of rivets *2.146*

Lap of plating *3.5/8* Per centage of strength of joint Rivets *84* Working pressure of shell by rules *123 lbs* Thickness of shell crown plates *1/2*

Radius of do. *3.6* No. of Stays to do. *none* Dia. of stays *✓* Diameter of furnace Top *2.9* Bottom *3.0 1/2* Length of furnace *3.3 1/2*

Thickness of furnace plates *1/2* Description of joint *riveted* Working pressure of furnace by rules *159 lbs* Thickness of furnace crown

plates *1/2* Stayed by *✓* Diameter of uptake *10" o.d.* Thickness of uptake plates *3/8* Thickness of water tubes *1/16*

The foregoing is a correct description,

Drawing No 6266.

For *COCHRANE & CO. ANNAN* Manufacturer.

Dates of Survey while building  
During progress of work in shops - -  
During erection on board vessel - - -  
Total No. of visits *5*

1907 Mar. 15 22 28 Apr. 11 12

Is the approved plan of main boiler forwarded herewith

" " " donkey " "



**GENERAL REMARKS**

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

This boiler has been made under survey, the materials & workmanship are good

*[Faint, illegible handwritten notes and bleed-through from the reverse side of the page.]*

Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	:	When applied for.
Special ... ..	£	:	:	19
Donkey Boiler Fee ...	£	2	2	When received,
Travelling Expenses (if any) £	:	:	:	19

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

Committee's Minute

Glasgow 22 APR 1907

Assigned

*Deferred for completion*

*Retain*



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