

Abirden No 10444.

Rpt. 5a.

# REPORT ON BOILERS.

No. 30467

Received at London Office WED. AUG. 9 - 1911

Date of writing Report 1911 When handed in at Local Office 5. 8. 10. 11. Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 22. May 1911. Last Survey 28. July 1911.

Reg. Book. on the H. M. S. Daisy (Number of Visits 7.) Gross 248. Tons Net 131.

Master Built at Abirden By whom built John Duthie Torry & Co. When built 1912

Engines made at Abirden By whom made J. Abernethy & Co. No 845 when made 1912

Boilers made at Glasgow By whom made David Rowan & Co. when made 1911

Registered Horse Power 61.42 Owners British Admiralty Port belonging to

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Glasgow Iron Works Ltd

Letter for record (5) Total Heating Surface of Boilers 1777 # Is forced draft fitted No. and Description of boilers One Single Ended Working Pressure 180 lbs 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 13-9" Length 10-6"

Material of shell plates steel Thickness 1 3/32" Range of tensile strength 28632 Are the shell plates welded or flanged

Descrip. of riveting: cir. seams D. R. L. long. seams D. B. S. Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 8 5/8"

Gap of plates or width of butt straps 18" Per centages of strength of longitudinal joint rivets 87.2 plate 86.2 Working pressure of shell by rules 180.5 Size of manhole in shell 16 x 12 Size of compensating ring Flanged No. and Description of Furnaces in each boiler 3 plain Material steel Outside diameter 3-4 1/2 Length of plain part Thickness of plates crown 3/4 bottom

Description of longitudinal joint weld 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 steel Thickness 1 7/32"

Pitch of stays 14" 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 steel Thickness 1 3/16" Material of lower back plate steel Thickness 1 3/16" Greatest pitch of stays Working pressure of plate by rules Diameter of tubes

Pitch of tubes Material of tube plates steel Thickness: Front 1 3/16" Back Mean pitch of stays Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and thickness of

Order 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

rules 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

The foregoing is a correct description, Finished by Abernethy Manufacturer.

Dates During progress of work in shops 1911. May 22. June 13. 22. 27. 30. July 25. 28. Is the approved plan of boiler forwarded herewith Yes

Survey while building During erection on board vessel Total No. of visits Glasgow 7.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Shell rolled & butt straps rivetted, ends flanged & machined, back rivetted into shell, chamber backs & back tube plates flanged & machined, furnaces welded & flanged, stay & tube holes bored in shell ends by Messrs David Rowan & Co. This boiler is to be completed by Messrs Abernethy & Co. to whom the above have been sent.

Survey Fee Charged at Aberdeen When applied for 1911 For completion, See Abn rept. No 10444. R. Fowler

Travelling Expenses (if any) £ When received 1911

H Gardner Smith Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 8 - AUG. 1911

Assigned Defered for compl. J.M.