

Hpl. No. 13025.

Rpt. 5.

REPORT ON BOILERS.

No. 24002

Port of Glasgow

Received at London Office

SAT. 28 JUL 1906
TUES. 22 MAY 1906

No. in Survey held at Annan Date, first Survey 6 April Last Survey 8 May 19 06
Reg. Book. "Snowdon Range" (Number of Visits) 1
1220 on the Donkey Boiler for S.S. (Gross Tons) 151
Master W. J. Bath Built at W. H. & Co. Ltd By whom built James O. B. & Co. Ltd When built 1906

Engines made at _____ By whom made _____ when made _____
Boilers made at _____ By whom made _____ when made _____
Registered Horse Power _____ Owners Neptune Ste. Nav. Co. Ltd Port belonging to Sunderland
(J. W. Bolam Mgr)

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 _____ 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 _____ Thickness of plates _____
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. 3982 Description Cochran Manufacturers of steel Wm Beardmore & Co
Made at Annan By whom made Cochran & Co. Annan Ltd When made 1906 Where fixed on shore Working pressure 100 lb
tested by hydraulic pressure to 200 Date of test 8/5/06 No. of Certificate 8045 Fire grate area 28 3/4 Description of safety valves Spring
No. of safety valves two Area of each 5.94 Pressure to which they are adjusted 105 lb If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No Dia. of donkey boiler 4' 0" Length 15' 0" Material of shell plates Steel Thickness 1 1/16" 1 1/8" Range of tensile strength 24/32 Descrip. of riveting long. seams Double rivet Dia. of rivet holes 29/32 Whether punched or drilled — Pitch of rivets 2 3/8"
Lap of plating 4 1/2" Per centage of strength of joint _____ Rivets 69/10 Working pressure of shell by rules 104 lb Thickness of shell crown plates 19/32
Radius of do 3' 6" No. of Stays to do. _____ Dia. of stays _____ Radius of furnace Top 3' 0" Bottom 5' 11" dia Length of furnace 3' 0"
Thickness of furnace plates 10/16 Description of joint _____ Working pressure of furnace by rules 109 lb Thickness of furnace crown plates 10/16 Radius of do. 3' 11" Stayed by _____ Diameter of uptake 10 1/2 x 23" Thickness of uptake plates 9/16
Thickness of _____ tube plates 1 1/16" + 23"

The foregoing is a correct description,

For COCHRAN & CO. ANNAN, LIMITED Manufacturer.

Dates of Survey _____ During progress of work in shops - - - 1906 - April 6, 11, 18, 20, 24, May 8
while building _____ During erection on board vessel - - - _____
Total No. of visits 6

Is the approved plan of main boiler forwarded herewith _____
" " " donkey " " " " _____

W743-0038

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

This boiler has been built under survey the material & workmanship are of good description and the Hydraulic test Satisfactory. *Wm*

This Briller has now been fitted on board.

Sauce Anne

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY

VERTICAL DONKEY BOILER

[Handwritten signature]

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

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

Committee's Minute

Glasgow 27 MAY 1808

TUES, 31 JUL 1906

Assigned

Transmit to London. Over

Lloyd's Register
Foundation