

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 Reg. Book. Survey held at Amman Date, first Survey 6 April Last Survey 8 May 19 06

1220 on the Donkey Boiler for S.S. "Snowdon Range" (Number of Visits) Tons } Gross } Net }

Master W. J. Bath Built at Warrington 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 Amman By whom made Cochran & Co Glasgow Ltd When made 1906 Where fixed at manhole Working pressure 100 lbs

tested by hydraulic pressure to 200 Date of test 8/5/06 No. of Certificate 8045 Fire grate area 28 sq ft Description of safety valves Spring

No. of safety valves two Area of each 5.9 sq ft Pressure to which they are adjusted 105 lbs 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 10 1/16" 14 1/32" Range of tensile strength 24/32 tons

Descrip. of riveting long. seams Double rivet Dia. of rivet holes 29/32 Whether quenched or drilled no Pitch of rivets 2 3/8"

Lap of plating 1/2" Per centage of strength of joint _____ Working pressure of shell by rules 104 lbs 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" Length of furnace 3' 0"

Thickness of furnace plates 10 1/16" Description of joint _____ Working pressure of furnace by rules 109 lbs Thickness of furnace crown plates 19/16"

Radius of do. 3' 11" Stayed by _____ Diameter of uptake 16 1/2" x 23" Thickness of uptake plates 9/16"

Thickness of _____ tube plates 19/16" + 23"

The foregoing is a correct description,

For COCHRAN & CO., AMMAN, LIMITED Manufacturer.

Dates of Survey while building _____ During progress of work in shops - - - 1906 - April 6, 11, 18, 20, 24, May 8

while board vessel - - - _____ Total No. of visits 6

Is the approved plan of main boiler forwarded herewith _____

_____ donkey " " _____

W743-0038

July 23. 26
July 24
16/06
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Shipping.



