

REPORT ON BOILERS.

Appl. No. 12947.
No. 25522

Port of Glasgow

Received at London Office MON. 21. MAY. 1906

No. in Survey held at Aman

Date, first Survey 13 Oct 05 Last Survey 6th Feb 1906

Reg. Book.

98 upon the Donkey Boilers for S.S. "Malacca Range" (Jurness & Co. Ltd 285) tons } Gross 3575.13
Net 2326.37

Master W. Wilson Built at W. Hartlepool By whom built Jurness & Co. Ltd When built 1906

Engines made at Hartlepool By whom made Richardsons, Westgate Rd. H. when made 1906

Boilers made at do By whom made do when made 1906

Registered Horse Power _____ Owners Leisure Steam Navigation Co. Ltd. Port belonging to Switzerland

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

(Letter for record)) **Total Heating Surface of Boilers** Is forced draft fitted _____

Boilers Working Pressure _____ Tested by hydraulic pressure to _____ No. and Description of _____

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 casing 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 _____

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 casing gear _____

VERTICAL DONKEY BOILER—

Made at Aman By whom made Cochran & Co. Ltd Description Cochran Manufacturers of steel Glydebridge Coy

Working pressure 100 lbs tested by hydraulic pressure to 200 lbs No. of Certificate 4063 Fire grate area 312 sq ft Where fixed Stoke Newington

No. of safety valves 25 Area of each 5.4 Pressure to which they are adjusted 100 lbs Date of test 11/2/06 Description of safety valves Spring

enter the donkey boiler No Dia. of donkey boiler 4' 6" Length 16' 6" Material of shell plates Steel Thickness 9/16 + 2/32 Range of tensile strength 24 tons

Descrip. of riveting long. seams Double Dia. of rivet holes 29/32 Whether punched or drilled _____ Pitch of rivets 2 3/8"

Lap of plating 4' 2" Per centage of strength of joint _____ Working pressure of shell by rules 103 lbs Thickness of shell crown plates 8/16"

Radius of do. 3' 9" No. of Stays to do. none Dia. of stays _____ Diameter of furnace Top 2' 3" Bottom 6' 6" Height about 3 ft

Thickness of furnace plates 23/32 Description of joint single lap Working pressure of furnace by rules 110 lbs Thickness of furnace crown plates 23/32

Stayed by Spherical Diameter of uptake 18 3/4" x 28 1/2" Thickness of uptake plates 10/16" Thickness of boiler tubes 29/32 + 1/32"

plates 23/32 Stay 1/4"

The foregoing is a correct description,
M. J. Bell Manufacturer.

Dates of Survey while building: During progress of work in shops - 1905. Oct. 13. 20. 1906. Jan. 20. Feb. 6
During erection on board vessel -
Total No. of visits 4

Drawing No 3249 approved
Is the approved plan of main boiler forwarded herewith _____
" " " donkey " " _____

W613-0111

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

This boiler has been built under survey to the approved drawing. The materials & workmanship are of good description and tests satisfactory.

This boiler has been securely fitted on board & its safety valves adjusted under steam.

Certificate (if required) to be sent to the Surveyors on or before the date for Committee's Meeting.

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

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

Committee's Minute Glasgow 19 FEB 1906

Assigned Transmit to London

FEB. 22 MAY 1906

Lloyd's Register Foundation