

16370

Rpt. 5a.

REPORT ON BOILERS.

No. 31844

Received at London Office

Date of writing Report 1912 When handed in at Local Office 14.9.1912 Port of Glasgow WED SEP. 18. 1912

No. in Survey held at Glasgow Date, First Survey 11.11.11. Last Survey 10.9.1912

Reg. Book. 198 on the T.S.S. "Infanta Isabel." (Number of Visits 35) Gross 8170 Tons Net 4844

Master Built at Port Glasgow By whom built Russell & Co. When built 1912

Engines made at Glasgow By whom made David Rowan & Co. When made 1912

Boilers made at Glasgow By whom made David Rowan & Co. 5743 When made 1912

Registered Horse Power Owners Pinillos, Izquierdo & Co. Port belonging to Cadix

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel William Beardmore & Co. Ltd. The Steel Company of Scotland Ltd. James Dunlop Company Ltd.

(Letter for record (5)) Total Heating Surface of Boilers 5640 sq. ft. = 2.5E. Is forced draft fitted No. and Description of Boilers 2, S.C. & 3 D.E.

Working Pressure 215 lbs Tested by hydraulic pressure to 430 Date of test 9/5/12

No. of Certificate 11574 Can each boiler be worked separately Area of fire grate in each boiler 61 sq. ft. No. and Description of safety valves to each boiler Double Spring Area of each valve 5.9 sq. in. Pressure to which they are adjusted 220 lbs

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 abt 8" Main dia. of boilers 15.6" Length 12.0"

Material of shell plates steel Thickness 17/16" Range of tensile strength 28.25 to 32 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 1/2" Pitch of rivets 10 3/8"

Lap of plates or width of butt straps 22" Per centages of strength of longitudinal joint rivets 90-2 plate 85-18 Working pressure of shell by rules 215 Size of manhole in shell 17" x 13" Size of compensating ring Flanged No. and Description of Furnaces in each boiler 3 Dighton Material steel Outside diameter 48 5/16" Length of plain part top 32 bottom 32 Thickness of plates crown 2 1/2" bottom 32

Description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules 220 Combustion chamber plates: Material steel Thickness: Sides 23/32" Back 1/16" Top 23/32" Bottom 7/8" Pitch of stays to ditto: Sides 9 3/4" x 8 1/2" Back 8 3/4" x 8 1/2"

Top 9 3/4" x 8 1/2" If stays are fitted with nuts or riveted heads Working pressure by rules 215 Material of stays steel Diameter at smallest part 2.07" Area supported by each stay 83 Working pressure by rules 224 End plates in steam space: Material steel Thickness 1 15/32" Pitch of stays 22 x 2 1/2" How are stays secured D. Nuts Working pressure by rules 215 Material of stays steel Diameter at smallest part 8.3"

Area supported by each stay 460 Working pressure by rules 216 Material of Front plates at bottom steel Thickness 7/8" Material of Lower back plate steel Thickness 7/8" Greatest pitch of stays 13 1/2" Working pressure of plate by rules 220 Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates steel Thickness: Front 1" Back 7/8" Mean pitch of stays 11 1/2" Pitch across wide water spaces 13 3/8" Working pressures by rules 215 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 9 1/2" x 1 x 2 Length as per rule 34 7/16" Distance apart 9 3/4" Number and pitch of Stays in each 3 x 8 1/2"

Working pressure by rules 215 Superheater or Steam chest: how connected to boiler none Can the superheater be shut off and the boiler worked separately

holes	Diameter	Length	Thickness of shell plates	Material	Description of longitudinal joint	Diam. of rivet

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

The foregoing is a correct description,
for David Rowan & Co. Manufacturer.

Dates of Survey } During progress of work in shops - - See accompanying Machinery Report. Is the approved plan of boiler forwarded herewith Yes.
while building } During erection on board vessel - - - Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been constructed under Special Survey & are of good materials & workmanship. They have been fitted on board as stated Rpt. 4.

Charged Machinery Rpt. Survey Fee ... £ : : When applied for, 1912
Travelling Expenses (if any) £ : : When received, 1912

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

GLASCOW 17 SEP. 1912

Committee's Minute Assigned See Minute on Machinery Rpt.



Single Ended Boilers. For particulars of Double Ended