

REPORT ON BOILERS

No. 26478

Received at London Office APRIL 23 1908

Date of writing Report April 14th 1908 When handed in at Local Office April 18th 1908 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 12th Aug 1907 Last Survey April 15th 1908
 Reg. Book. 99 Sup on the J & Barcelona (Number of Visits 36) Tons { Gross
 Master Glasgow Built at Glasgow By whom built Chas. Connell & Co When built 1908
 Engines made at Glasgow By whom made David Rowan & Co when made 1908
 Boilers made at do By whom made do when made 1908
 Registered Horse Power _____ Owners Cinillos, Izquierdo & Co Port belonging to Cadiz

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY. —Manufacturers of Steel David Colville & Son Ltd

(Letter for record (3)) Total Heating Surface of Boilers 12574.48 Is forced draft fitted no No. and Description of Boilers One Single Ended Working Pressure 80 lb Tested by hydraulic pressure to 160 lb Date of test 28/1/08
 No. of Certificate 9330 Can each boiler be worked separately no Area of fire grate in each boiler 38 No. and Description of safety valves to each boiler 2 Lockwood Area of each valve 7 Pressure to which they are adjusted 85 lb
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no
 Smallest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 12'-0" Length 10'-0"
 Material of shell plates steel Thickness 7/8" Range of tensile strength 28632 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams D. R. L. long. seams T. R. L. Diameter of rivet holes in long. seams 5/16" Pitch of rivets 3.474"
 Lap of plates or width of butt straps 6 3/8" Per centages of strength of longitudinal joint rivets 81.04 Working pressure of shell by rules 80 lb plate 73.01
 Size of manhole in shell 17 x 13 Size of compensating ring 2.5 x 2.9 No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 3'-6 7/8" Length of plain part 72" Thickness of plates 1/2"
 Description of longitudinal joint weld No. of strengthening rings none Working pressure of furnace by the rules 90 lb Combustion chamber plates: Material steel Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 3/4" Pitch of stays to ditto: Sides 9 3/4 x 9 3/4" Back 10 x 9 1/2"
 Top 9 3/4 x 9 3/4" If stays are fitted with nuts or riveted heads no Working pressure by rules 81 lb Material of stays steel Diameter at smallest part 9/16" Area supported by each stay 95" Working pressure by rules 83 End plates in steam space: Material steel Thickness 1 1/2"
 Pitch of stays 30 1/2 x 14 1/2" How are stays secured D. Nuts Working pressure by rules 80 Material of stays steel Diameter at smallest part 4.37"
 Area supported by each stay 480" Working pressure by rules 95 Material of Front plates at bottom steel Thickness 1/16" Material of Lower back plate steel Thickness 7/8" Greatest pitch of stays 13 1/2" Working pressure of plate by rules 100 Diameter of tubes 3 1/2"
 Pitch of tubes 4 1/2 x 4 3/8" Material of tube plates steel Thickness: Front 2 1/32" Back 2 1/32" Mean pitch of stays 13 7/16" Pitch across wide water spaces 13 1/2" Working pressures by rules 85 lb Girders to Chamber tops: Material steel Depth and thickness of girder at centre 6 1/2 x 5/8 x 2 Length as per rule 31 1/2" Distance apart 9 3/4" Number and pitch of Stays in each 2-9 3/4"
 Working pressure by rules 83 Superheater or Steam chest; how connected to boiler none 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 _____

The foregoing is a correct description,
 Jno David Rowan & Co Manufacturer.
 Is the approved plan of boiler forwarded herewith as per report attached as per report attached

Total No. of visits 36

Dates of Survey while building } During progress of work in shops - - }
 } During erection on board vessel - - - }

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under Special Survey & is of good materials & workmanship. It has been fitted on board as stated Rpt. 44.

Survey Fee ... £ : : } When applied for, 17/4/1908
 Travelling Expenses (if any) £ : : } When received, 22/4/1908

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

Committee's Minute Glasgow 22 APR 1908
 Assigned See attached report

