

REPORT ON BOILERS.

No. 11408

Received at London Office SAT SEP 17 1920

Date of writing Report 12 July 1920 When handed in at Local Office 19 Port of Rotterdam
 No. in Survey held at Rotterdam Date, First Survey 4 Jan. 1910 Last Survey 17 June 1920
 Reg. Book. on the (Blk. 600) 1/3 "ABELIA" (Number of Visits 13.) Tons } Gross }
 } Net }
 Master Built at Handenveel By whom built Scheepwag. De Abbevede When built 1920
 Engines made at Amsterdam By whom made Neuschnee & Co When made 1920
 Boilers made at Rotterdam By whom made Wilton's Eng. Slipway Co When made 1920
 Registered Horse Power Owners Hugo Persson & Co Port belonging to Landscrena

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel David Colville and Sons, Ltd

Letter for record S. Total Heating Surface of Boilers 1903 sq ft Is forced draft fitted ✓ No. and Description of Boilers One horizontal Main Boiler Working Pressure 100 lbs Tested by hydraulic pressure to 350 lbs. Date of test 17-6-20.
 No. of Certificate 401. Can each boiler be worked separately ✓ Area of fire grate in each boiler 60 sq ft 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 14' 6 3/4" Length 10' 0"
 Material of shell plates Steel Thickness 1 1/32" Range of tensile strength 20 1/2 tons Are the shell plates welded or flanged No.
 Descrip. of riveting: cir. seams Lap, dull, rev. long. seams dull, butt, treble riv. Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 8 3/4"
 Gap of plates or width of butt straps 20 1/8" Per centages of strength of longitudinal joint rivets 92% Working pressure of shell by plate 85%
 Weight 202 lbs Size of manhole in shell 12" x 16" Size of compensating ring 2' 6" x 2' 10" No. and Description of Furnaces in each boiler 3. Morisons Material steel Outside diameter 3' 11 1/2" Length of plain part top ✓ Thickness of plates crown } 2 1/32" bottom }
 Description of longitudinal joint Welded. No. of strengthening rings none Working pressure of furnace by the rules 200 lbs Combustion chamber plates: Material Steel Thickness: Sides 1/16" Back 1/16" Top 1/16" Bottom 1/16" Pitch of stays to ditto: Sides 8" x 7 1/2" Back 7 3/4" x 7 3/4"
 Spacing 8" x 8" If stays are fitted with nuts or riveted heads rivets in margin Working pressure by rules 200 lbs Material of stays steel Area at smallest part 1.547 sq ft Area supported by each stay 60 sq ft Working pressure by rules 216 lbs End plates in steam space: Material Steel Thickness 1/8"
 Pitch of stays 20" x 16" How are stays secured screwed. Working pressure by rules 213 lbs Material of stays Steel Area at smallest part 7.06 sq ft
 Area supported by each stay 320 sq ft Working pressure by rules 230 lbs Material of Front plates at bottom Steel Thickness 1 1/32" Material of lower back plate Steel Thickness 1 3/16" Greatest pitch of stays 13 3/8" Working pressure of plate by rules 190 lbs Diameter of tubes 3 1/4"
 Pitch of tubes 4 3/8" Material of tube plates steel Thickness: Front 1 1/32" Back 7/16" Mean pitch of stays 11. Pitch across wide inter spaces 14 1/4" Working pressures by rules 212 lbs. Girders to Chamber tops: Material steel Depth and thickness of girder at centre 2 x 8 1/2" x 7/8" Length as per rule 2' 7 1/2" Distance apart 0" Number and pitch of Stays in each 3 of 8"
 Working pressure by rules 230 lbs Steam dome: description of joint to shell ✓ % of strength of joint ✓

PERHEATER. Type ✓ Date of Approval of Plan ✓ Tested by Hydraulic Pressure to ✓
 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler ✓
 Pressure to which each is adjusted ✓ Is Easing Gear fitted ✓

The foregoing is a correct description,
 WILTON'S ENGINEERING & SLIPWAY CO. Manufacturer.
 W. Milton

Dates of Survey During progress of work in shops - Jan 4, May 2, 13, 15, Sept 5, 24, Nov 10, Dec 6. Is the approved plan of boiler forwarded herewith
 While building During erection on board vessel - 1919, Jan 22, Feb 27, March 29, May 2, 1920, June 4. Total No. of visits 13.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 The boiler has been made in accordance with the Rules and Secretary's letters, material tested as required and workmanship good.

Survey Fee ... £ 700.00 } When applied for, 13/7 1920
 Travelling Expenses (if any) £ 1.00 } When received, 13/7 1920

TUE. SEP. 21 1920

P. N. Brunson
 Engineer Surveyor to Lloyd's Register of Shipping.



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