

Rpt. 5a.

REPORT ON BOILERS

No. 9442

19 OCT 1925

13 JAN 1926

Date of writing Report 17-10-1925
No. in Survey held at 17-10-1925
Reg. Book. 17-10-1925
on the New Steel M.S. MYRTLEBANK
Master Built at Glasgow By whom built Harland & Wolff Ltd
Engines made at Glasgow By whom made Harland & Wolff Ltd
Boilers made at Belfast By whom made Harland & Wolff Ltd
Registered Horse Power Owners Messrs Andrew Weir & Co. (Bank Line) Report belonging to Glasgow.
Date, First Survey 5 June, 1925 Last Survey Oct 14th 1925
(Number of Visits 19) Gross Tons Net Tons
When built 1925
When made 1925
When made 1925

MULTITUBULAR BOILERS

(Letter for record S) Total Heating Surface of Boilers 1510 sq ft Is forced draft fitted No. and Description of Boilers One single ended 15B Working Pressure 110 lbs Tested by hydraulic pressure to 215 lbs Date of test 5-10-25

No. of Certificate 844 Can each boiler be worked separately EQUIVALENT Area of fire grate in each boiler 44 sq ft No. and Description of safety valves to each boiler TWO SPRING LOADED Area of each valve 9.62 sq in Pressure to which they are adjusted 110 lbs/sq in

Are they fitted with easing gear YES 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 2'-1" INSIDE Mean dia. of boilers 13'-0" Length 11'-0"

Material of shell plates Steel Thickness 3/4" Range of tensile strength 88 to 39 tons Are the shell plates welded or flanged No Description of riveting: cir. seams D.R. long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 15/16" Pitch of rivets 6 3/8"

Lap of plates or width of butt straps 1'-2 1/4" Per centages of strength of longitudinal joint rivets 116 Working pressure of shell by rules 120 lbs Size of manhole in shell 16 x 12 Size of compensating ring 2 @ 3'-0" x 2'-8" x 3/4" thick

boiler 3 corrugated Material Steel Outside diameter 3'-4 1/8" Length of plain part top Thickness of plates crown 7/16" bottom 1/2" Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 156 lbs Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 3/4" Pitch of stays to ditto: Sides 8 1/4" x 8 1/2" Back 9 x 8 1/2"

Top 9 1/2 x 8 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 137 lbs Material of stays Steel Area at smallest part 1-27 Area supported by each stay 4 1/8 sq in Working pressure by rules 129 lbs End plates in steam space: Material Steel Thickness 7/8"

Pitch of stays 18 x 16 How are stays secured nuts & washers Working pressure by rules 122 lbs Material of stays Steel Area at smallest part 4-11/16" Area supported by each stay 32 sq in Working pressure by rules 137 lbs Material of Front plates at bottom Steel Thickness 3/4" Material of Lower back plate Steel Thickness 3/4" Greatest pitch of stays 12 3/4 x 8 1/2 Working pressure of plate by rules 190 lbs Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2 x 4 1/2 Material of tube plates Steel Thickness: Front 3/4" Back 3/4" Mean pitch of stays 8.92" Pitch across wide water spaces 1'-9 1/4" Working pressures by rules 134 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 2 @ 4" x 3 1/4" length as per rule 2'-6" Distance apart 9 1/2" Number and pitch of Stays in each 3 @ 8 1/4"

Working pressure by rules 141 lbs Steam dome: description of joint to shell none % of strength of joint Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type none Date of Approval of Plan Tested by Hydraulic Pressure to

Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description, FOR HARLAND AND WOLFF, LIMITED, J.D. Keay, Manufacturer.

Dates of Survey During progress of June 5, 12, 18, 26 July 23, 31 Aug 10, 17, 18, 24 Is the approved plan of boiler forwarded herewith will be sent with No 6949. (dup 6948-81)

while building During erection on board vessel Sept 7, 11, 14, 18, 24, 25 Oct 2, 5, 14 = 19 Total No. of visits

GENERAL REMARKS

(State quality of workmanship, opinions as to class, &c.) This Boiler has been built under Special Survey. Materials & Workmanship good. Hydraulic tests satisfactory. It has been shipped to Glasgow for installation. This Boiler has now been fitted on board the above vessel in an efficient manner.

Examined under steam and found satisfactory. Safety valves adjusted to 110 lbs/sq in. Working F 9 1/2 A 1/2

Survey Fee ... £ 10 : 2 : 0 When applied for, 17-10-1925

Travelling Expenses (if any) £ : : When received, 6-11-1925

Committee's Minute GLASGOW 12 JAN 1926 W.M.

Assigned See accompanying machinery report

Engineer Surveyor to Lloyd's Register of Shipping. FRI. 22 JAN 1926

Lloyd's Register Foundation

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