

REPORT ON BOILERS.

No. 32498.

Date of writing Report

191

When handed in at Local Office

31. 3. 1913 Port of Glasgow

Received at London Office

No. in Survey held at
Reg. Book.

Glasgow

Date, First Survey

23-12-12

Last Survey

29-1-

1913

on the

s.s. Shahzada Cambay

(Number of Visits

8.)

Tons

Gross 502 725

Net 498 348

Master A. Harders Built at Ardrossan By whom built Ardrossan & Co. Ltd. When built 1913

Engines made at Glasgow By whom made Miller & Co. Ltd. When made 1913

Boilers made at Glasgow By whom made David Rowan & Co. (2/186) When made 1913

Registered Horse Power Owners J. Birch & Co. Port belonging to Bombay

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel Messrs. Stewart, Lloyds & Co.

Letter for record (5) Total Heating Surface of Boilers 1996 sq. ft. Is forced draft fitted No. No. and Description of

Boilers One Single Ended Working Pressure 180 lb. Tested by hydraulic pressure to 360 lb. Date of test 29/1/13

No. of Certificate 11959 Can each boiler be worked separately Area of fire grate in each boiler 55 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" Length 10.6"

Material of shell plates Steel Thickness 1 3/16" Range of tensile strength 28532 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams D. R. L. long. seams D. B. S. Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 8 3/4"

Top of plates or width of butt straps 19 1/4" Per centages of strength of longitudinal joint rivets 96.8" Working pressure of shell by

Rules 180 lb. Size of manhole in shell 16" x 12" Size of compensating ring Flanged No. and Description of Furnaces in each

Boiler 3 Plain Material Steel Outside diameter 3.578" Length of plain part top 75" Thickness of plates crown 3/4"

Description of longitudinal joint welded No. of strengthening rings 1 per ft. Working pressure of furnace by the rules 193 Combustion chamber

Plates: Material Steel Thickness: Sides 3/4" Back 1 1/16" Top 3/4" Bottom 3/4" Pitch of stays to ditto: Sides 11" x 9 1/2" Back 9 1/2" x 9 1/2"

Top 11" x 9 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 181 Material of stays Steel Diameter at

Smallest part 2.07 Area supported by each stay 10.4 Working pressure by rules 180 End plates in steam space: Material Steel Thickness 1 1/32"

Pitch of stays 24" x 20 How are stays secured D. nuts Working pressure by rules 180 Material of stays Steel Diameter at smallest part 9.62"

Area supported by each stay 4.63 Working pressure by rules 185 Material of Front plates at bottom Steel Thickness 7/8" Material of

Lower back plate Steel Thickness 27/32 Greatest pitch of stays 13" Working pressure of plate by rules 180 Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2" Material of tube plates Steel Thickness: Front 7/8" Back 13/16" Mean pitch of stays 11 1/4" Pitch across wide

Water spaces 13 1/2" Working pressures by rules 180 Girders to Chamber tops: Material Steel Depth and thickness of

Girder at centre 9 1/2" x 3 1/4" x 2 Length as per rule 34 1/2" Distance apart 9 1/2" Number and pitch of Stays in each 2 at 11"

Working pressure by rules 180 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

Survey request form

No. 1140. attached The foregoing is a correct description, for David Rowan & Co. Manufacturer.

Dates of Survey During progress of work in shops - - 1912 Dec. 23-26.

while building During erection on board vessel - - 1913 Jan. 7, 10, 13, 21, 28, 29.

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits 8.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under Special Survey & is of good workmanship & materials.

Survey Fee ... £ 6 : 13 : 0

When applied for, 31. 3. 1913

Travelling Expenses (if any) £ :

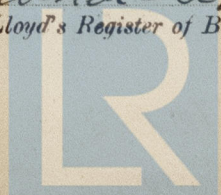
When received, 2/4/1913

Committee's Minute

GLASGOW 1-APR. 1913

Assigned See minute on accompanying machinery report.

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



Lloyd's Register
Foundation

W769-0199