

# REPORT ON BOILERS.

No. 36849

THU. 24 MAY 1917

Received at London Office

Date of writing Report 23.4.1917 When handed in at Local Office 1917 Port of GLASGOW

No. in Survey held at Glasgow Date, First Survey 3.2.15 Last Survey 15.5.1917

Reg. Book. 518 "Glennevis" (Number of Visits) } Gross Tons } Net

Master. Built at Grovie By whom built Avonshire Dockyard Co. Ltd. When built 1917

Engines made at Glasgow By whom made Dunson & Jackson Ld. (455) When made 1917

Boilers made at ditto By whom made ditto When made 1917

Registered Horse Power 510 Owners Indian S.S. Co. Ltd. (Glasgow) Port belonging to Glasgow

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel James Doulton, Glasgow, Colville

(Letter for record R(5)) Total Heating Surface of Boilers 941 Is forced draft fitted No No. and Description of Boilers One Single Ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 5-9-16

No. of Certificate 13536 Can each boiler be worked separately Yes Area of fire grate in each boiler 327 No. and Description of safety valves to each boiler Double Spring Area of each valve 7.06 Pressure to which they are adjusted 105

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 4-6 Mean dia. of boilers 11.0 Length 9-6

Material of shell plates S Thickness 1 1/16 Range of tensile strength 28/32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams DR long. seams TRL Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 4

Lap of plates 4 1/4 width of butt straps 4 1/4 Per centages of strength of longitudinal joint rivets 82 Working pressure of shell by rules 115 Size of manhole in shell 16x12 Size of compensating ring 53/4 x 3/4 No. and Description of Furnaces in each boiler 2 Plain Material S Outside diameter 3-5 3/8 Length of plain part 6-0 Thickness of plates 19/32

Description of longitudinal joint weld No. of strengthening rings 1 Working pressure of furnace by the rules 112 Combustion chamber plates: Material S Thickness: Sides 1/2 Back 17/32 Top 1/2 Bottom 3/4 Pitch of stays to ditto: Sides 4 3/4 x 9 1/4 Back 8 1/16 x 8 3/4

Top 4 3/4 x 8 1/4 If stays are fitted with nuts or riveted heads Sub. Working pressure by rules 110 Material of stays Iron Area at smallest part 888.22/147 Area supported by each stay 48 Working pressure by rules 102 End plates in steam space: Material S Thickness 3/4

Pitch of stays 15 1/2 x 14 7/8 How are stays secured DN Working pressure by rules 110 Material of stays S Area at smallest part 3.43

Area supported by each stay 230 Working pressure by rules 130 Material of Front plates at bottom S Thickness 3/4 Material of Lower back plate S Thickness 1 1/16 Greatest pitch of stays 16 x 8 3/4 Working pressure of plate by rules 116 Diameter of tubes 2 1/4

Pitch of tubes 4 1/4 x 4 1/2 Material of tube plates S Thickness: Front 3/4 Back 5/8 Mean pitch of stays 11 Pitch across wide water spaces 14 Working pressures by rules 142 Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 6 x 8 1/4 (2) Length as per rule 24.185 Distance apart 8 1/4 Number and pitch of Stays in each 2 at 4 3/4

Working pressure by rules 134 Steam dome: description of joint to shell — % 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 —

UPERHEATER. Type — 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 —

BY SMITH & JACKSON Easing Gear fitted

The foregoing is a correct description,  
James Doulton Director, Manufacturer.

Dates of Survey: During progress of work in shops — Is the approved plan of boiler forwarded herewith Yes

while building — See accompanying Machinery Report. Total No. of visits —

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under Special Survey in accordance with the approved plan & the workmanship & material are of good quality. This Report accompanies that of the Machinery

Survey Fee — £ — When applied for 1917

Travelling Expenses (if any) — £ — When received 1917

Charged on Machinery Report: —

Committee's Minute GLASGOW 23 MAY 1917

Assigned See accompanying machinery report.

W. Gordon-Mitchell Engineer Surveyor to Lloyd's Register of Shipping.

