

# REPORT ON BOILERS.

No. 1736

Received at London Office MON. 23 SEP 1907

Writing Report 16 Sept 1907 When handed in at Local Office 19.9.1907 Port of Trieste

Survey held at Trieste Date, First Survey 13<sup>th</sup> Nov 1906 Last Survey 14 Sept 1907

Description of Book. 18 on the S.S. Baron Beck Donkey Boiler (Number of Visits 12) } Gross 3890  
 Tons } Net 2384

Length or D. Mistorigo Built at Trieste By whom built Lloyd Austriaco When built 1904

Plates made at Trieste By whom made Lloyd Austriaco when made 1904

Rivets made at Trieste By whom made Lloyd Austriaco when made 1904

Registered Horse Power 432 Owners Lloyd Austriaco Port belonging to Trieste

**MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel Steel Comp of Scotland

Number for record 7 Total Heating Surface of Boilers 788 sq feet Is forced draft fitted No No. and Description of Boilers Single ended multitubular

Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 26.6.07

Number of Certificate 69 Can each boiler be worked separately Yes Area of fire grate in each boiler 30<sup>sq</sup> No. and Description of Valves to each boiler 2 Spring loaded Area of each valve 4.9<sup>sq</sup> Pressure to which they are adjusted 180 lbs

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

Least distance between boilers or uptakes and bunkers or woodwork 20" Mean dia. of boilers 10'3" Length 9'0"

Material of shell plates steel Thickness 1 5/16 Range of tensile strength 27 tons Are the shell plates welded or flanged No

Direction of riveting: cir. seams double riv long. seams single double strap Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 7 3/4 x 3 1/2

Width of plates or width of butt straps 17 1/2" butt Per centages of strength of longitudinal joint rivets 95.4% Working pressure of shell by plate 86.5%

Weight 188 lbs Size of manhole in shell 16" x 12" Size of compensating ring 1 3/4 MacNabs No. and Description of Furnaces in each 2 Deightons

Material steel Outside diameter 3'2 1/2" Length of plain part top 1 1/2" Thickness of plates bottom 1 1/32"

Description of longitudinal joint welded No. of strengthening rings 1 Working pressure of furnace by the rules 182 Combustion chamber

Material steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 5/8" Pitch of stays to ditto: Sides 8" Back 8 1/2 x 8"

If stays are fitted with nuts or riveted heads nuts + washers riveted out Working pressure by rules 204.5 Material of stays iron Diameter at smallest part 1 1/4" Area supported by each stay 66<sup>sq</sup> Working pressure by rules 230 lbs End plates in steam space: Material Steel Thickness 27/32"

How are stays secured Double nuts Riveted washers Working pressure by rules 186 lbs Material of stays Steel Diameter at smallest part 2 3/8"

Area supported by each stay 196<sup>sq</sup> Working pressure by rules 187 lbs Material of Front plates at bottom Steel Thickness 27/32" Material of

Super back plate Steel Thickness 27/32" Greatest pitch of stays 10" Working pressure of plate by rules 322 Diameter of tubes 3 1/4"

Material of tube plates Steel Thickness: Front 27/32" Back 3/4" Mean pitch of stays 8 1/2" Pitch across wide

Working pressures by rules 269<sup>lb</sup> & 256 Girders to Chamber tops: Material Steel Depth and thickness of

at centre 6 1/2" x 3/4" Length as per rule 26 Distance apart 7" Number and pitch of Stays in each 2 - 8"

Working pressure by rules 191<sup>lb</sup> Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked

separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivets

Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

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,

J. M. W. M. W. Manufacturer.

Dates of Survey: During progress of work in shops Nov 13, 06, 5/12, 12/1/07, 18/1, 28/1, 5/3 Is the approved plan of boiler forwarded herewith Yes

During erection on board vessel 8/4, 15/4, 29/4, 26/6, 19/7, 14/9/07 Total No. of visits 12

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This boiler was partly built at Glasgow and completed at this port and tested by hydraulic pressure in accordance with the rules to 360 lbs pressure and found sound, the workmanship being of a good description

Survey Fee ... £50 : : } When applied for, 17 Sept 1907

Travelling Expenses (if any) £ : : } When received, 27.9.07

Charles R. Hughes  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

TUES. 24 SEP 1907

Committee's Minute

Assigned

