

REPORT ON BOILERS.

No. 4803.

Received at London Office

TUE. SEP. 5. 1916

of writing Report 31st Aug 1916 When handed in at Local Office 19 Port of Bilbao
 of So. in Survey held at Bilbao Date, First Survey 14th April Last Survey 22nd July 1916.
 9/11 Book. on the Soc Anon Astilleros del Nervion N^o 2 (Number of Visits 9) Gross Tons Net Tons
 ter Built at Bilbao By whom built Soc Anon Astilleros del Nervion When built
 ines made at Glasgow By whom made Ross & Duncan (N^o 1006) when made 1915
 ers made at Bilbao By whom made Soc Anon Astilleros del Nervion when made 1916
 istered Horse Power Owners Jose. M. Martinez de las Rivas Port belonging to Bilbao

ULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel James Duple & Co.
 etter for record 3 Total Heating Surface of Boilers 2386 sq ft Is forced draft fitted No No. and Description of
 ers Two Single ended boilers Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 22-7-16
 of Certificate 12 Can each boiler be worked separately Yes Area of fire grate in each boiler 39 1/2 sq ft No. and Description of
 ty valves to each boiler Area of each valve Pressure to which they are adjusted
 they fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler
 allest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 11'-6" Length 10'-6"
 rial of shell plates Steel Thickness 31/32" Range of tensile strength 28-32 Are the shell plates welded or flanged
 ip. of riveting: cir. seams D.R. long. seams 3R. Small heads Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 3 1/2" Cir. seams 6 1/2" long
 of plates or width of butt straps 17 1/2" Per centages of strength of longitudinal joint 83.6% Working pressure of shell by 88.5%
180 lbs Size of manhole in shell 12" X 16" Size of compensating ring 28 X 30 X 2 1/2" No. and Description of Furnaces in each
Two (single ended) Material Steel Outside diameter 3'-10 1/2" Length of plain part 8' 9 1/16" Thickness of plates 27/32" crown 27/32" bottom 27/32"
 ription of longitudinal joint welded No. of strengthening rings Surf Working pressure of furnace by the rules 209 Combustion chamber
 s: Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 1 1/16" Pitch of stays to ditto: Sides 8 1/4" X 7 1/4" Back 8 1/4" X 8 1/4"
8 1/4" X 7 1/4" If stays are fitted with nuts or riveted heads not both ends Working pressure by rules 187 lbs Material of stays Steel Diameter at
 lest part 1 7/8" Area supported by each stay 8 1/4" X 8 1/4" Working pressure by rules 195 lbs End plates in steam space: Material Steel Thickness 21/32"
 of stays 16 1/2" X 15 1/2" How are stays secured not both ends Working pressure by rules 190 lbs Material of stays Steel Diameter at smallest part 2 3/8"
 supported by each stay 16 1/2" X 15 1/2" Working pressure by rules 180 Material of Front plates at bottom Steel Thickness 27/32" Material of
 r back plate Steel Thickness 27/32" Greatest pitch of stays 13 1/2" Working pressure of plate by rules 180 Diameter of tubes 3 1/4"
 of tubes 4 1/8" X 4 1/4" Material of tube plates Steel Thickness: Front 27/32" Back 2 1/4" Mean pitch of stays 8 3/4" Pitch across wide
 spaces 1 1/4" Working pressures by rules 244 lbs Girders to Chamber tops: Material Steel Depth and thickness of
 r at centre 7 3/4" X 1 3/4" Length as per rule 30" Distance apart 8 1/2" Number and pitch of Stays in each 3 - 4 7 3/4"
 ting pressure by rules 185 lbs Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked
 ately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 fened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed
 ting pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

RTICAL DONKEY BOILER—No. Description Manufacturers of steel
 at By whom made When made Where fixed Working pressure
 by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves
 f safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can
 the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile
 gth Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets
 of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates
 us of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace
 mess of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown
 Radius of do. Stayed by Diameter of uptake Thickness of uptake plates
 ness of water tubes

The foregoing is a correct description,

Manufacturer.

ates During progress of 1916. April 14. 19. 25. June 2. 8. July 12. 13. 17. 22.
 ury During erection on
 hile board vessel
 ding Total No. of visits 9

Is the approved plan of main boiler forwarded herewith Yes" " " donkey " "

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

These Boilers have been constructed under special Survey and in accordance with the approved plan, and the requirements of the Society Rules. The materials and workmanship are good. Boilers have been tested by hydraulic pressure with satisfactory results.

[Faint, illegible handwritten notes and signatures follow, including names like J. de Montgabal and John Pollard.]

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

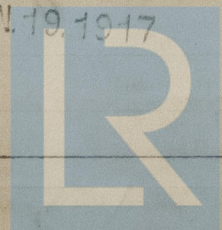
The amount of Entry Fee...	£	:	:	When applied for,
Special	£	:	:	19
Donkey Boiler Fee ...	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:	19

Committee's Minute FRI. 27 OCT. 1916

Assigned

J. de Montgabal & John Pollard
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

FRI. JAN. 19. 1917



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