

REPORT ON BOILERS.

No. 6032

Received at London Office

ERI. 7 JUL 1922

Date of writing Report 23rd JUNE 1922 When handed in at Local Office 26th JUNE 1922 Port of BILBAO

No. in Survey held at BILBAO Date, First Survey 5th MAY Last Survey 13th JUNE 1922
 Reg. Bool. 33841 on the S/S "MARI" (Ex "ULVERSMEAD") (Number of Visits 6) Gross 3829 Tons Net 2441.
 Master Built at SUNDERLAND By whom built W. DOXFORD & SONS Ltd When built 1907.
 Engines made at SHIELDS By whom made W. DOXFORD & SONS Ltd When made 1907
 Boilers made at SHIELDS By whom made W. DOXFORD & SONS Ltd When made 1907
 Registered Horse Power 310 Owners CIA. NAVIERE AMAYA Port belonging to CALAHO

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY.~~ Manufacturers of Steel ☒ PLAN APPROVED 13/6/22.
 (Letter for record S) Total Heating Surface of Boilers 1740. Is forced draft fitted No. No. and Description of
 Boilers 1 SINGLE ENDED MARINE TYPE Working Pressure 110 lbs Tested by hydraulic pressure to Date of test
 No. of Certificate Can each boiler be worked separately Area of fire grate in each boiler 60 sq ft No. and Description of
 safety valves to each boiler 2 SPRING LOADED Area of each valve 8.295 Pressure to which they are adjusted 110 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.
 Smallest distance between boilers or uptakes and bunkers or woodwork On MAIN DECK Mean dia. of boilers 13'-0" Length 10'-0"
 Material of shell plates STEEL Thickness 1 1/16 Range of tensile strength 28-30 Are the shell plates welded or flanged
 Descrip. of riveting: cir. seams Dble Lap long. seams Dble BUTT STRAPS Diameter of rivet holes in long. seams 1 1/8 Pitch of rivets 7 1/2
 Lap of plates or width of butt straps 16 3/4 x 7/8 Per centages of strength of longitudinal joint rivets 92.6 Working pressure of shell by plate 85.0
 rules 180 Size of manhole in shell 16" x 12" Size of compensating ring See PLAN No. and Description of Furnaces in each
 boiler 3 Fox's CORRUGATED Material STEEL Outside diameter 3'-7" Length of plain part top Thickness of plates crown 1/2 bottom
 Description of longitudinal joint WELD No. of strengthening rings Working pressure of furnace by the rules 176 Combustion chamber
 plates: Material STEEL Thickness: Sides 5/8 Back 9/16 Top 5/8 Bottom 3/4 Pitch of stays to ditto: Sides 6 1/4 x 8 1/2 Back 8 1/4 x 8 1/2
 Top 9 x 8 If stays are fitted with nuts or riveted heads NUTS Working pressure by rules 169 Material of stays STEEL Area at
 smallest part 1.16 Area supported by each stay 72.25 Working pressure by rules 130 End plates in steam space: Material STEEL Thickness 1 1/16
 Pitch of stays 16 x 14 7/8 How are stays secured 461 NUTS & WASHERS Working pressure by rules 176 Material of stays STEEL Area at smallest part 3.26
 Area supported by each stay 236 Working pressure by rules 144 Material of Front plates at bottom STEEL Thickness 1 1/16 Material of
 Lower back plate STEEL Thickness 1 1/16 Greatest pitch of stays 14" x 8 1/2 Working pressure of plate by rules 306 Diameter of tubes 3"
 Pitch of tubes 4" x 4" Material of tube plates STEEL Thickness: Front 1 1/16 Back 1 1/16 Mean pitch of stays 11" Pitch across wide
 water spaces 14" Working pressures by rules 258 Girders to Chamber tops: Material STEEL Depth and thickness of
 girder at centre 7" x 1 1/2 Length as per rule 28.625 Distance apart 8" Number and pitch of Stays in each 2-9" PITCH
 Working pressure by rules 174 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

SUPERHEATER. 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 Is Easing Gear fitted

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

The foregoing is a correct description,

Manufacturer.

Dates of Survey
 During progress of work in shops --
 During erection on board vessel --
 building Total No. of visits

Is the approved plan of main boiler forwarded herewith

" " " donkey " " " YES.

010219-010228-0101

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

This boiler was originally built by Messrs Barclay Curle & Co Ltd in 1910 for the Admiralty and placed on board the steamer "Santi". The boiler has now been removed from the vessel and fitted on board the steamer "MARI" as a donkey boiler, working pressure 110 lbs per Sq. inch.

The boiler with mountings has been examined internally & externally and found to be in an efficient and safe working condition. The safety valves have been examined and adjusted under steam to the working pressure 110 lbs per Sq. inch and in our opinion this donkey boiler is eligible to be classed, W.P. 110 lbs. subject to a hydraulic test of 165 lbs being placed on the boiler. (See Secretary's letter of 14th June 1922. E).

Certificate (if required) to be sent to B/LBAO.

The amount of Entry Fee ...
Special ...
Donkey Boiler Fee ...
Travelling Expenses (if any) ...
Committee's Minute ...
Assigned ...

Peseta

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

W. G. H. Kimley & C. H. Fowling
Engineer Surveyor to Lloyd's Register of Shipping

TUE SEP. 19 1922



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