Rpt. 5a.

REPORT ON BOILERS.

No. 17786

Received at London Office WED. 9 MAR. 1921

Date of writing Report 4th March 1921. When handed in at Local Office 5/3/ 1921. Port of Greenock.

No. in Reg. Book. Survey held at Port-Glasgow. Date, First Survey 12th Janry, 1920 Last Survey 2nd March, 1921 (Number of Visits 68.)

on the Steel Screw Steamship "GOBEO". Tons Gross 3346·24. Net 2087·71.

Master Juan B. Zotorica. Built at Port-Glasgow. By whom built Robert Duncan & Co Ltd When built 1921.

Engines made at Port-Glasgow. By whom made The Clyde Shipbuilding & Engine Co Ltd When made 1921.

Boilers made at Ditto. By whom made Ditto. When made 1921.

Registered Horse Power – Owners Comp: Cantrabrica de Navegacion. Port belonging to Bilbao.

(Clyde S/B & E Co Ltd 17477)

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ **DONKEY.**—Manufacturers of Steel David Colville & Sons Ltd.

(Letter for record S) **Total Heating Surface of Boilers** 788 Sq. ft. Is forced draft fitted No **No. and Description of Boilers** One cylindrical Multitubular Sing: End **Working Pressure** 100 lbs Tested by hydraulic pressure to 200 lbs Date of test 30/12/20.

No. of Certificate 1527. Can each boiler be worked separately – **Area of fire grate in each boiler** 30 Sq. ft. oil fuel. No. and Description of safety valves to each boiler Two, Spring loaded. Area of each valve 4·9 □". Pressure to which they are adjusted 105 lbs.

Are they fitted with easing gear Yes. In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes.

Smallest distance between boilers or uptakes and bunkers or woodwork 12'-2½". Mean dia. of boilers 10'-6" Length 9'-6".

Material of shell plates Steel Thickness 19/32". Range of tensile strength 28 to 32 tons Are the shell plates welded or flanged –

Descrip. of riveting: cir. seams D.R. long. seams Double Butts D.R. Diameter of rivet holes in long. seams ¾" Pitch of rivets 4".

Lap of plates or width of butt straps 8". Per centages of strength of longitudinal joint rivets 89. plate 81·2. Working pressure of shell by rules 105 lbs. Size of manhole in shell 16" x 12". Size of compensating ring 33" x 27" x 19/32" **No. and Description of Furnaces in each boiler** Two, plain. Material Steel Outside diameter 39 9/16". Length of plain part top 69". bottom 69". Thickness of plates crown 17/32". bottom 17/32".

Description of longitudinal joint H.B.S. Single riveted No. of strengthening rings – Working pressure of furnace by the rules 114 lbs. Combustion chamber plates: Material Steel. Thickness: Sides 15/32" Back ½" Top 15/32". Bottom 15/32". Pitch of stays to ditto: Sides 8" x 8". Back 8½" x 8". Top 8" x 7¾". If stays are fitted with nuts or riveted heads Nuts. Working pressure by rules 109 lbs Material of stays Steel Area at smallest part 0·9 □". Area supported by each stay 68 □". Working pressure by rules 106 lbs End plates in steam space: Material Steel Thickness ¾" Pitch of stays 15½" x 15". How are stays secured Double Nuts Working pressure by rules 108 lbs Material of stays Steel Area at smallest part 2·66 □". Area supported by each stay 233 □". Working pressure by rules 114 lbs Material of Front plates at bottom Steel Thickness 23/32". Material of lower back plate Steel. Thickness ½" Greatest pitch of stays 8½" x 8". Working pressure of plate by rules 127 lbs Diameter of tubes 3". Pitch of tubes 4¼" x 4¼". Material of tube plates Steel Thickness: Front 23/32" Back ¾" Mean pitch of stays 13½" Pitch across wide water spaces 13½" Working pressures by rules 102 (Front), 111 (Back), 114 lbs. Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6" x 1⅜". Length as per rule 29" Distance apart 7¾". Number and pitch of Stays in each Two, 8".

Working pressure by rules 112 lbs Steam dome: description of joint to shell None. % 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

The foregoing is a correct description,

THE CLYDE SHIPBUILDING & ENGINEERING CO. LIMITED,

Peter Ferguson Director. Manufacturer.

Dates of Survey while building: During progress of work in shops – – During erection on board vessel – – – See accompanying report. Is the approved plan of boiler forwarded herewith Total No. of visits 68.

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

This Donkey Boiler has been constructed under Special Survey and in accordance with the Society's Rules & the approved plan, tested by hydraulic pressure and found tight & sound. The boiler is fitted in Bridge tween deck space. For recommendation as to class please see machinery report.

Survey Fee ... ... £ 4 : 4 : When applied for, 5/3/ 1921

Travelling Expenses (if any) £ – : : When received, 2. 4. 1921

E. Graham Robertson

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute See attached Report

Assigned GLASGOW 8 - MAR 1921

© 2021 Lloyd's Register Foundation

002830-002837-0023