Rpt. 5a.

REPORT ON BOILERS.

No. 41825

Date of writing Report 24/3/22 19 When handed in at Local Office 25/3/22 Received at London Office WFD 29 MAR. 1922 Port of Glasgow

No. in Reg. Book. Survey held at Glasgow Date, First Survey 8. 3. 1920 Last Survey 23 3 1922 (Number of Visits 115)

on the T S/S "Malda" Gross 8965 Tons Net 5453

Master Built at Glasgow By whom built Barclay Curle & Co. (588) When built 1922

Engines made at Glasgow By whom made Barclay Curle & Co. 588 When made 1922

Boilers made at Glasgow By whom made Barclay Curle & Co. (584) When made 1922

Registered Horse Power Owners British India Co. Port belonging to Glasgow.

MULTITUBULAR BOILERS—~~MAIN~~, AUXILIARY ~~OR DONKEY~~.—Manufacturers of Steel Beardmore

(Letter for record S) Total Heating Surface of Boilers 1538 □' Is forced draft fitted Yes No. and Description of Boilers One Single Ended

Working Pressure 215 Tested by hydraulic pressure to 373 Date of test 14. 4. 21

No. of Certificate 15789 Can each boiler be worked separately Yes Area of fire grate in each boiler 37.58 □' No. and Description of safety valves to each boiler Double Spring Area of each valve 5.98 □' Pressure to which they are adjusted 220

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

Smallest distance between boilers or uptakes and bunkers or woodwork -18" ~~Mean~~ Int. dia. of boilers 12'-0" Length 11'-0"

Material of shell plates S Thickness 17/32" Range of tensile strength 28-32 Are the shell plates welded or flanged —

Descrip. of riveting: cir. seams DRLJ long. seams TRIDBS Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 3/4"

~~Lap of plates~~ width of butt straps 18 3/4" Per centages of strength of longitudinal joint rivets 88.62 plate 85.71 Working pressure of shell by rules 240 Size of manhole in shell 16"×12" Size of compensating ring 3'2 1/2"×34" No. and Description of Furnaces in each boiler 2 Corrugated Material S Outside diameter 3'.9 1/4" Length of plain part top bottom — Thickness of plates crown bottom 5/8"

Description of longitudinal joint weld. No. of strengthening rings — Working pressure of furnace by the rules 236 Combustion chamber plates: Material S Thickness: Sides 21/32" Back 21/32" Top 21/32" Bottom 1" Pitch of stays to ditto: Sides 8 1/4"×7 3/4" Back 8 1/4"×7 3/4"

Top 8 1/4"×7 3/4" If stays are fitted with nuts or riveted heads N Working pressure by rules 232 Material of stays S Area at smallest part 173.236 □" Area supported by each stay 63.9 Working pressure by rules 216 End plates in steam space: Material S Thickness 1 1/8"

Pitch of stays 16"×16 1/2" How are stays secured DN Working pressure by rules 239 Material of stays S Area at smallest part 5.56 □" Area supported by each stay 264 Working pressure by rules 262 Material of Front plates at bottom S Thickness 31/32" Material of Lower back plate S Thickness 29/32 Greatest pitch of stays 14 1/4" Working pressure of plate by rules 216 Diameter of tubes 2 1/2"

Pitch of tubes 3 3/4"×3 5/8" Material of tube plates S Thickness: Front 31/32" Back 13/16" Mean pitch of stays 7 3/8" Pitch across wide water spaces 13 1/2" Working pressures by rules 224 Girders to Chamber tops: Material S Depth and thickness of girder at centre 10"×25/32 (2) Length as per rule 30 17/32" Distance apart 8 1/4" Number and pitch of Stays in each 3 at 7 3/4"

Working pressure by rules 240 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 None fitted Date of Approval of Plan

Date of Test Tested by Hydraulic Pressure to

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

Is a Report also sent on the Hull of the Ship? Yes If not, state whether, and when, one will be sent?

The foregoing is a correct description,

FOR BARCLAY, CURLE & CO., LTD. John Alexander MANAGER

Manufacturer.

Dates of Survey while building { During progress of work in shops - - / During erection on board vessel - - - } See accompanying machinery report

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits 115

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Boiler has been built under Special Survey, in accordance with the approved plans & the workmanship & material are of good quality. It is now securely fitted on board.

This Rept. accompanies that of the Machinery Rept

Survey Fee ... ... £ : : } When applied for, 19

Travelling Expenses, if any £ : : } When received, 19

Charged on Machy Rept

W. Gordon-Duncan

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 28 MAR 1922

Assigned See accompanying mach.y report.

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