Rpt. 5a.

REPORT ON BOILERS

No. 40971

Received at London Office 23 MAR 1921

Date of writing Report 21. 3. 1921 When handed in at Local Office 21. 3. 1921 Port of Glasgow

Date, First Survey 8. 5. 1919 Last Survey 10. 3. 1921 (Number of Visits 81) Tons { Gross / Net

No. in Reg. Book. Survey held at Dalmuir

on the T.S.S. "Cameronia"

Built at Dalmuir By whom built Wm Beardmore & Co Ld (584) When built 1921

Master By whom made Wm Beardmore & Co Ld (584) When made 1921

Engines made at Dalmuir By whom made Wm Beardmore & Co Ld (584) When made 1921

Boilers made at Dalmuir Owners Port belonging to

Registered Horse Power

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~.—Manufacturers of Steel W. Beardmore & Co Ltd.

(Letter for record (S) **Total Heating Surface of S.E. Boilers** 9721·26 Is forced draft fitted yes **No. and Description of Boilers** 3 S.E. Multitubular Working Pressure 220 Tested by hydraulic pressure to 385 Date of test 9/4/20 15/4/20 21/4/20

No. of Certificate 15221 15234 15242 Can each boiler be worked separately yes **Area of fire grate in each boiler** 82·9 No. and Description of safety valves to each boiler double, spring loaded Area of each valve 9·62 □" Pressure to which they are adjusted 225

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 Well clear ~~Mean~~ inside dia. of boilers 17-6 Length 11' 6"

Material of shell plates Steel Thickness 1 21/32" Range of tensile strength 30 to 34 Tons Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams double lap long. seams treble butt Diameter of rivet holes in long. seams 1 21/32 Pitch of rivets 10½"

Lap of plates or width of butt straps 23 5/8 Per centages of strength of longitudinal joint rivets 92·0 plate 84·2 Working pressure of shell by rules 230

Size of manhole in shell 16" × 12" Size of compensating ring 40" × 36½" × 1 21/32 **No. and Description of Furnaces in each boiler** 4 Morisons

Material Steel Outside diameter 48 7/8" Length of plain part top bottom ✓ Thickness of plates crown bottom 11/16" Combustion chamber

Description of longitudinal joint weld No. of strengthening rings ✓ Working pressure of furnace by the rules 231 Top 9 7/8 × 8" Sides 9 7/8 + 9 w.s.c. Back 10 × 7 7/8"

plates: Material Steel Thickness: Sides 23/32 Back 23/32 Top 23/32 Bottom 13/16" Pitch of stays to ditto: Material of stays Steel Area at

If stays are fitted with nuts or riveted heads nuts Working pressure by rules 237 Thickness 1¼" Working pressure by rules 230 End plates in steam space: Material Steel Area at smallest part 7·06

smallest part 2·03 Area supported by ~~each~~ stay 89 □" Working pressure by rules 221 Material of stays Steel Thickness 1" Material of

Pitch of stays 17 5/8" × 18" How are stays secured 2 nuts Working pressure by rules 231 Material of Front plates at bottom Steel Diameter of tubes 2¾"

Area supported by ~~each~~ stay 318 □" Greatest pitch of stays 13¾ with 5/8 double Working pressure of plate by rules 400 Pitch across wide

Lower back plate Steel Thickness 29/32 Material of tube plates Steel Thickness: Front 1" Back 15/16" Mean pitch of stays 10" Depth and thickness of

Pitch of tubes 4" × 4" water spaces 13¾" with 1" double Working pressures by rules 292 Girders to Chamber tops: Material Steel Number and pitch of Stays in each (2) 9 7/8"

girder at centre 9 × ¾ double Length as per rule 30 11/32" Distance apart 8" % of strength of joint ✓

Working pressure by rules 260 Steam dome: description of joint to shell none Diam. of rivet holes ✓

Diameter ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Thickness ✓ How stayed ✓

Pitch of rivets ✓ Working pressure of shell by rules ✓ Crown plates ✓ Tested by Hydraulic Pressure to 660

SUPERHEATER. Type Schmidt's Date of Approval of Plan See Manchester Rept. Is Easing Gear fitted yes

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 2" for S.E. Boilers ½" " D.E. Boilers Pressure to which each is adjusted 230

FOR WILLIAM BEARDMORE & CO., LIMITED ENGINEERING MANAGER

The foregoing is a correct description, Manufacturer.

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

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

Total No. of visits Is the approved plan of boiler forwarded herewith yes

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under special survey. The materials & workmanship are of good description, they have been well fitted on board & tried under steam.

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

Travelling Expenses (if any) £ : : } When received, ... 19.....

22 MAR 1921 GLASGOW.

A. McLeand
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned See attached machinery report

Im,1,19.—Copyable Ink.

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