

REPORT ON BOILERS.

No. 39835
WED. APR. 14 1920

Received at London Office

of writing Report Feb 19th 1920 When handed in at Local Office 12.4. 1920 Port of GLASGOW

Survey held at Paisley Date, First Survey 23. 6. 19. Last Survey 19. 2. 1920

Book on the Two S.E. Marine Boilers for the SS DALMATIER. (Number of Visits 12.) Gross 1214. 21. Tons Net 442. 24

Built at Glasgow By whom built Lloyd Royal Belge N° 14 When built 1920

Boilers made at Glasgow By whom made Mc Kie & Baxter N° 943. When made

Boilers made at Paisley By whom made A. F. Craig & Co Ltd 658/9. When made 1920

Registered Horse Power Owners Port belonging to

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

Letter for record S Total Heating Surface of Boilers 815 sq ft each Is forced draft fitted No. and Description of Boilers Two S.E. Marine Working Pressure 185 lbs Tested by hydraulic pressure to 340 lbs Date of test 19/2/20

Area of Certificate 15108 Can each boiler be worked separately Area of fire grate in each boiler 24 sq ft No. and Description of Safety valves to each boiler

Area of each valve Pressure to which they are adjusted

Are they fitted with easing gear 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 10' 3" dia. of boilers 10' 8" Length

Material of shell plates Steel Thickness 29/32 Range of tensile strength 28/32 Are the shell plates welded or flanged No

Description of riveting: cir. seams DR long. seams TR DBS Diameter of rivet holes in long. seams 1" Pitch of rivets 4 1/4"

Width of butt straps 1' 3" Per centages of strength of longitudinal joint 88.8 Working pressure of shell by rules 86.2

Size of manhole in shell 16" x 12" Size of compensating ring 29 5/8" x 25 5/8" x 1/8" No. and Description of Furnaces in each boiler Two Deighton Material Steel Outside diameter 3' 4 1/4" Length of plain part 192

Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 184 Combustion chamber

Material Steel Thickness: Sides 1/16" Back 5/8" Top 1/16" Bottom 1/16" Pitch of stays to ditto: Sides 9 1/2" x 8" Back 8 1/4" x 8"

Top 10" x 4 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 204 Material of stays Steel Diameter at smallest part 1.46 Area supported by each stay 66 Working pressure by rules 213 End plates in steam space: Material Steel Thickness 1 1/32

How are stays secured D. Nut & Washer Working pressure by rules 185 Material of stays Steel Diameter at smallest part 5.24

Area supported by each stay 248 Working pressure by rules 220 Material of Front plates at bottom Steel Thickness 1/32 Material of lower back plate Steel Thickness 1/32

Greatest pitch of stays 13 3/4" x 8" Working pressure of plate by rules 290 Diameter of tubes 3 1/4"

Pitch of tubes 4 9/16" x 4 1/2" Material of tube plates Steel Thickness: Front 1/32" Back 2 1/32" Mean pitch of stays 11 1/32" Pitch across wide

Water spaces 13 3/4 Working pressures by rules 198 & 230 Girders to Chamber tops: Material Steel Depth and thickness of

Order at centre 8" x 5 1/8" D. Length as per rule 23 1/32" Distance apart 10" Number and pitch of Stays in each 2 @ 4 1/2"

Working pressure by rules 226 Superheater or Steam chest: How connected to boiler Can the superheater be shut off and the boiler worked

separately? 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

stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,
A. F. CRAIG & CO. Ltd. Manufacturer.

Is the approved plan of boiler forwarded herewith with Ref 39429.

Total No. of visits 12.

During progress of work in shops - July 9 Aug 9 Sept 11. 16. Oct 6. 14. 22. 31.

During erection on board vessel - 1920 Jan 9 Feb 19.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under special survey in accordance with the approved plan. The materials and workmanship are of good quality. The boilers have been satisfactorily fitted on board.

Survey Fee ... £ Charged on Machinery: When applied for, 191
Travelling Expenses (if any) ... When received, 191

J. D. Boyle. David C Barr. Engineer-Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 13 APR 1920

Assigned See accompanying machinery report

