

WED. 17 MAR. 1920

REPORT ON BOILERS.

No. 39729.

MAR. 1920

Received at London Office

Date of writing Report Jan 19th 1920 When handed in at Local Office 13.3.1920 Port of GLASGOW
 No. in Survey held at Paisley Date, First Survey 23.6.19. Last Survey 28/1/1920.
 Reg. Book. on the Two S.E. Marine boilers for S.S. SYRIER. (Number of Visits 15.) Gross Tons }
 Net Tons }
 Master Built at Whiteinch By whom built Lloyd Royal Belge Ltd (13) When built 1920
 Engines made at Glasgow By whom made McKie & Baxter N° 942 When made 1920.
 Boilers made at Paisley By whom made A. F. Craig & Co Ltd (656/4) 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 each Is forced draft fitted No. and Description ofBoilers Two S.E. Marine Working Pressure 185 lbs Tested by hydraulic pressure to 340 lbs Date of test 14/1/20
15029No. of Certificate 15045 Can each boiler be worked separately Area of fire grate in each boiler 24 sq 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 INT dia. of boilers 10' 3" Length 10' 8"Material of shell plates Steel Thickness 29/32 Range of tensile strength 28/32 Are the shell plates welded or flanged NoDescrip. of riveting: cir. seams DR long. seams TR DBS Diameter of rivet holes in long. seams 1" Pitch of rivets 4 1/4"Lap of plates or width of butt straps 1' 3" Per centages of strength of longitudinal joint rivets 88.8 Working pressure of shell by
 rules 192 Size of manhole in shell 16" x 12" Size of compensating ring 29 5/8 x 25 5/8 x 1/8" plate 86.2boiler Two Deighton Material Steel Outside diameter 3' 4 1/4" Length of plain part top Thickness of plates crown
bottom 1/2"Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 184 Combustion chamberplates: 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" stays are fitted with nuts or riveted heads Nuts Working pressure by rules 204 Material of stays Steel AREA
 Diameter atsmallest part 1 1/4" Area supported by each stay 66 Working pressure by rules 213 End plates in steam space: Material Steel Thickness 1 1/2"Pitch of stays 19 1/2" x 12 3/4" How are stays secured Nut & Washer Working pressure by rules 185 Material of stays Steel AREA
 Diameter at smallest part 5.24Area supported by each stay 248 Working pressure by rules 220 Material of Front plates at bottom Steel Thickness 1 1/2" Material ofLower back plate Steel Thickness 1 1/2" 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 S Thickness: Front 1 1/2" Back 2 1/2" Mean pitch of stays 11 1/2" Pitch across widewater spaces 13 3/4" Working pressures by rules 198 & 230 Girders to Chamber tops: Material Steel Depth and thickness ofgirder at centre 8" x 5 1/8" D Length as per rule 23 1/2" Distance apart 10" Number and pitch of Stays in each 2 @ 4 1/2"Working pressure by rules 226 Superheater Schmidt's Type. App. Feb. 5th 1920 Can the superheater be shut off and the boiler workedseparately No Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

holes 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.

Dates During progress of 1919 June 23 July 9 Aug 5 Sept 11. 16. Oct 6. 14. 22. 31. Is the approved plan of boiler forwarded herewith
 Survey work in shops - - - Dec. 10.
 while During erection on 1920 Jan 9. 14. 19. 27. 28.
 building board vessel - - -

Total No. of visits 15.

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

These boilers have been built under special survey in accordance with the approved plans and Rules of the Society. The materials and workmanship are of good quality.

These boilers have been fitted on board in a satisfactory manner, tried under steam and found satisfactory.

Survey Fee £ Charged : When applied for, ✓ 191Travelling Expenses (if any) £ machinery : When received, ✓ 191

GLASGOW 16 MAR 1920

Committee's Minute

signed See accompanying machinery report

J. S. Selles D. C. Barr
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.