

REPORT ON BOILERS.

No. 38646.

Received at London Office

Date of writing Report 1919 When handed in at Local Office 1919 Port of Glasgow

No. in Survey held at Rosruw Date, First Survey 29th Jan 1918 Last Survey Feb 26th 1919

Reg. Book. on the S.S. "Lombardier" ex "War Jay" (Number of Visits 1st) Gross Tons } Net

Master Built at Glasgow By whom built Lloyds Royal Belg. S. S. Co. (N^o 8) When built 1919

Engines made at Glasgow By whom made North British Diesel Eng^g Co. (14) When made 1919

Boilers made at Rosruw By whom made Wm Simons & Co. L^{td} (626) A When made 1918

Registered Horse Power Owners Lloyds Royal Belg. Societe Anonyme Port belonging to Antwerp

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Coy of Scotland

(Letter for record (3)) Total Heating Surface of 2 Boilers 2886 ^{sq ft} Is forced draft fitted — No. and Description of Boilers 2 Single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 7/10/18

No. of Certificate 14484 Can each boiler be worked separately — Area of fire grate in each boiler 48.56 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 — Mean dia. of boilers 13-0 Length 10' 6"

Material of shell plates Steel Thickness 1 1/16" Range of tensile strength 28 to 32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams Lap double long, seams triple butt Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 8

Lap of plates or width of butt straps 16 3/8" Per centages of strength of longitudinal joint rivets 86.9 Working pressure of shell by rules 181 Size of manhole in shell 20 1/2 x 16 1/2" Size of compensating ring 3 1/2 x 27 3/4 x 1 1/16" No. and Description of Furnaces in each boiler 3 Dighton Material Steel Outside diameter 4 1/4" Length of plain part — Thickness of plates —

Description of longitudinal joint Weld No. of strengthening rings — Working pressure of furnace by the rules 182 Combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 1/2" special Pitch of stays to ditto: Sides 8 3/4 x 8 1/2" Back 8 3/4 x 8 3/8"

Top 8 3/4 x 8 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 181 Material of stays Steel Diameter at smallest part 1.73 Area supported by each stay 74 Working pressure by rules 185 End plates in steam space: Material Steel Thickness 1 1/4"

Pitch of stays 22 3/8" How are stays secured 27, 70 Working pressure by rules 188 Material of stays Steel Diameter at smallest part 7.24

Area supported by each stay 395 Working pressure by rules 190 Material of Front plates at bottom Steel Thickness 1" Material of Lower back plate Steel Thickness 1 3/16" Greatest pitch of stays 13" Working pressure of plate by rules 184 Diameter of tubes 3 1/2"

Pitch of tubes 4 7/16 x 4 3/8" Material of tube plates Steel Thickness: Front 1" Back 3/4" Mean pitch of stays 11 5/8" Pitch across wide water spaces 14" Working pressures by rules 182 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 3/8 x 4" Length as per rule 30 1/2" Distance apart 8 3/4" Number and pitch of Stays in each (2) 8 1/2"

Working pressure by rules 186 Superheater or Steam chest; how connected to boiler None 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 holes — Pitch of rivets — Working pressure of shell by rules — Diameter of flue — Material of flue plates — Thickness —

If 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 —

WM. SIMONS & CO., LTD.
The foregoing is a correct description,
Wm. Simons Secretary, Manufacturer.

Dates of Survey: During progress of (1918) Jan 29, Mar 19, Apr 25, May 6, 30, June 10, 14. Is the approved plan of boiler forwarded herewith Yes
work in shops - - -
while building (During erection on board vessel - - -) Aug 9, Sept 14, Oct 7, 30 (1919) Jan 20, Feb 26.
Total No. of visits 107

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under special survey, the materials and workmanship are of good description.

Boilers have now been fitted on board and tried under steam satisfactorily.

Survey Fee £ 100 : : When applied for, 191
Travelling Expenses (if any) £ : : When received, 191

Harry Clarke
Engineer/Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 23 APR 1919

Assigned See attached machinery report.



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