

Rpt. 5a.

REPORT ON BOILERS.

No. 17395.

WED. JAN. 15. 1919

Date of writing Report 15th Dec 1918 When handed in at Local Office 14th Dec. 1918. Port of Greenock
 No. in Survey held at Greenock Date, First Survey 16th May, 1918. Last Survey 13th Dec. 1918.
 Reg. Book. on the Steel Screw Steamer WAR JASMINE (Number of Visits 36.) Gross Tons }
 Net Tons }
 Master Built at Glasgow By whom built Harland & Wolff (No 548) When built 1918
 Engines made at Glasgow By whom made Harland & Wolff (No 549) When made 1918
 Boilers made at Greenock By whom made Caird & Co Ltd When made 1918
 Registered Horse Power Owners Port belonging to

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

(Letter for record S) Total Heating Surface of Boilers 7665 ft² Is forced draft fitted yes No. and Description of Boilers Three single ended Working Pressure 180 lb Tested by hydraulic pressure to 260 lb Date of test 7/10/18
 No. of Certificate 1362 Can each boiler be worked separately yes Area of fire grate in each boiler 63.5 ft² No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 9.62 ft² Pressure to which they are adjusted 185 lb
 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 1-9 in Mean dia. of boilers 15.6 in Length 11.6 in mean
 Material of shell plates steel Thickness 1 1/2 in Range of tensile strength 28-32 Are the shell plates welded or flanged
 Descrip. of riveting: cir. seams long. seams all clip Dia. of rivet holes in long. seams 1 1/4 in Pitch of rivets 9 in
 Lap of plates or width of butt straps 19 1/2 in Per centages of strength of longitudinal joint rivets 88.5 Working pressure of shell by rules 182 lb Size of manhole in shell 16-12 in Size of compensating ring flanged No. and Description of Furnaces in each boiler 3 Brighton Material steel Outside diameter 50 1/4 in Length of plain part top bottom Thickness of plates crown bottom 19 1/2 in
 Description of longitudinal joint induced No. of strengthening rings long Working pressure of furnace by the rules 182 lb Combustion chamber plates: Material steel Thickness: Sides 2 3/32 in Back 1 1/4 in Top 2 3/32 in Bottom 2 3/32 in Pitch of stays to ditto: Sides 10 7/8 in Back 10 1/4 in Top 10 7/8 in Bottom 10 1/4 in If stays are fitted with nuts or riveted heads steel Working pressure by rules 180 lb Material of stays steel Diameter at smallest part 2.43 in Area supported by each stay 98.3 in² Working pressure by rules 222 lb End plates in steam space: Material steel Thickness 1 1/2 in
 Pitch of stays 21 1/4 in How are stays secured all nuts Working pressure by rules 181 lb Material of stays steel Diameter at smallest part 8.29 in
 Area supported by each stay 473 in² Working pressure by rules 182 lb Material of Front plates at bottom steel Thickness 3 1/2 in Material of Lower back plate steel Thickness 2 7/32 in Greatest pitch of stays 13 5/8 in Working pressure of plate by rules 187 lb Diameter of tubes 2 1/4 in
 Pitch of tubes 4 in Material of tube plates steel Thickness: Front 3 1/2 in Back 1 3/4 in Mean pitch of stays 9.8 in Pitch across wide water spaces 13 5/8 in Working pressures by rules 181 lb Girders to Chamber tops: Material steel Depth and thickness of girder at centre 10-14 in Length as per rule 35.52 in Distance apart 10 5/8 in Number and pitch of Stays in each Three 9 1/2 in
 Working pressure by rules 187 lb 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 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

The foregoing is a correct description,
 FOR CAIRD AND COMPANY, LIMITED,

Manufacturers.

Dates of Survey During progress of (1918) May 16-21-28, June 4-6-10-12-18-20, July 18-23-Is the approved plan of boiler forwarded herewith
 while work in shops - - 26-30, Aug. 2-19-23-26, Sep. 2-11-16-20-24, Oct. 1-4-7-9-14-17-22-24.
 building During erection on board vessel - - Nov. 1-6-15-22, Dec. 2-13: - Total No. of visits 36.

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

These main boilers have been constructed under special survey in accordance with the approved photo print and found good.

These boilers have now been satisfactorily fitted to the vessel
Jas Eastlake
Glasgow 4/1/19

Survey Fee ... £ 29 : 4 : 9 When applied for, 8-1-1919

Travelling Expenses (if any) £ : : When received, 8-3-1919

Have credit Greenock
 with 1/4 machinery fee

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

Committee's Minute GLASGOW 14 JAN 1919

Assigned See attached machinery report.



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 Foundation

REPORT ON BOILER

YVAR JASMINE

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