

# REPORT ON BOILERS.

No. 18479.

-2 DEC 1925

Received at London Office

Date of writing Report 24. 10. 1925 When handed in at Local Office 26. 11. 1925 Port of Greenock

No. in Survey held at Greenock Date, First Survey 16th January, 1925. Last Survey 23rd November, 1925.

Reg. Book. S/S "Barrdale" (Number of Visits 61) Gross Tons Net

Master Built at Greenock By whom built Greenock Dockyard Co. Ld. When built 1925

Engines made at Greenock By whom made John & Kincaid Co. Ld. (623) When made 1925

Boilers made at ditto By whom made ditto (623) When made 1925

Registered Horse Power 475 Owners Barr & Groubi Co. Ld. Port belonging to Glasgow.

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~.—Manufacturers of Steel Rheinische Stahlwerke Aktiengesellschaft

(Letter for record S) Total Heating Surface of Boilers 7035 # Is forced draft fitted Yes No. and Description of Boilers 3 Single Ended Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 22.6.25

No. of Certificate 1696 Can each boiler be worked separately Yes Area of fire grate in each boiler 52.5 # No. and Description of safety valves to each boiler Double Spring Area of each valve 9.62 # Pressure to which they are adjusted 185

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 3-6 Mean dia. of boilers 15-6 Length 11-9

Material of shell plates S Thickness 1 1/4 Range of tensile strength 28/32 Are the shell plates welded or flanged

Descrip. of riveting: cir. seams DR long. seams TR. D. B. S Diameter of rivet holes in long. seams 19/32 Pitch of rivets 9 1/8

Top of plates or width of butt straps 1. 4 1/4 Per centages of strength of longitudinal joint rivets 84/96 plate 85/96 Working pressure of shell by rules 180 Size of manhole in shell 16 1/2 x 20 1/2 Size of compensating ring 2.6 7/8 x 2.11 7/8 x 1.5 1/16 No. and Description of Furnaces in each boiler 3 corrugated Material S Outside diameter 4.0 1/4 Length of plain part top bottom Thickness of plates crown bottom 9 1/16

Description of longitudinal joint weld No. of strengthening rings Working pressure of furnace by the rules 181 Combustion chamber plates: Material S Thickness: Sides 1 1/16 Back 2 1/32 Top 1 1/16 Bottom 1 3/16 Pitch of stays to ditto: Sides 9 3/4 x 9 1/4 Back 10 x 8

Top 9 3/4 x 9 1/4 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 183 Material of stays S Area at smallest part 203 Area supported by each stay 90 Working pressure by rules 189 End plates in steam space: Material S Thickness 19/32

Pitch of stays 9 1/10 How are stays secured D.N. Wankun Working pressure by rules 185 Material of stays S Area at smallest part 7.85

Area supported by each stay 462 Working pressure by rules 184 Material of Front plates at bottom S Thickness 1 Material of Lower back plate S Thickness 1 3/16 Greatest pitch of stays 14 3/4 Working pressure of plate by rules 184 Diameter of tubes 2 1/2

Pitch of tubes 3 3/4 x 3 3/4 Material of tube plates S Thickness: Front 1 Back 2 3/32 Mean pitch of stays 9.375 Pitch across wide water spaces 14 1/2 Working pressures by rules 183 Girders to Chamber tops: Material S Depth and thickness of girder at centre 11 x 13/16 (2) Length as per rule 40 5/8 Distance apart 9 1/4 Number and pitch of Stays in each 3 at 9 3/4

Working pressure by rules 204. Steam dome: description of joint to shell % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

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 Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description, FOR JOHN G. KINCAID & COY., LIMITED. Robert Green Manufacturer.

Is the approved plan of boiler forwarded herewith Yes.

Total No. of visits 61.

Dates of Survey } During progress of work in shops - - } while } During erection on board vessel - - - } See 1st Entry Machinery Report.

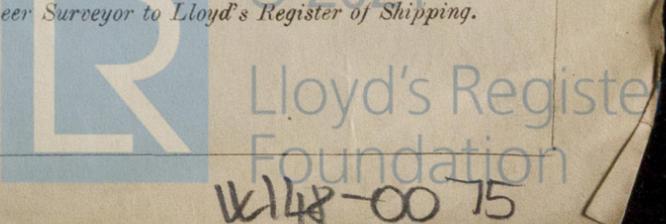
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been built under special Survey in accordance with the approved plans & the workmanship & material are of good quality. They have been securely fitted on board. The Rept. accompanies that of the Machinery

Survey Fee ... When applied for, 19... Travelling Expenses ... When received, 19...

W. Gordon Macleod Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 1-DEC 1925

Assigned See accompanying machinery report.



W148-0075