

## REPORT ON BOILERS.

No. 18643.

19 JAN 1927

Received at London Office

Date of writing Report 29/9/26 When handed in at Local Office 11th January 1927 Port of Greenock  
 No. in Survey held at Greenock Date, First Survey 3rd August, 1925 Last Survey 18th January, 1927  
 Reg. Book. T/Ss "Rodney Star" (Number of Visits 99)  
 Master Built at Glasgow By whom built Little Gordon & Co. When built 1926  
 Engines made at Wallsend By whom made Parsons Marine Steam Turbine Co. Ltd. When made 1926  
 Boilers made at Greenock By whom made John & Kincaid & Co. Ltd. When made 1926  
 Registered Horse Power Owners Blue Star Line (1920) Ltd. Port belonging to London

MULTITUBULAR BOILERS—MAIN, ~~Greenock~~—Manufacturers of Steel Krupp, Babcock & Wilcox, etc.

(Letter for record R) Total Heating Surface of Boilers 4832 sq ft Is forced draft fitted Yes No. and Description of Boilers 2 Single Ended Working Pressure 200 Tested by hydraulic pressure to 250 Date of test 17.3.26

No. of Certificate 1716 Can each boiler be worked separately Yes Area of fire grate in each boiler 70 sq ft No. and Description of safety valves to each boiler 2 Backwater Improved High Lift Area of each valve 4.06 sq ft Pressure to which they are adjusted 205

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

Smallest distance between boilers or uptakes and bunkers or woodwork 5' 0" Dia. of boilers 14' 6" Length 12' 0"

Material of shell plates S Thickness 1 9/32 Range of tensile strength 28/32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams DR long. seams TR.D.B.S Diameter of rivet holes in long. seams 1 9/32 Pitch of rivets 10 1/2"

Top of plates width of butt straps 1-11 1/8 Per centages of strength of longitudinal joint rivets 91.7 % plate 84.82 % Working pressure of shell by rules 207 Size of manhole in shell 16 1/2 x 20 1/2 Size of compensating ring 33 1/8 x 38 1/8 x 1 9/32 No. and Description of Furnaces in each boiler 4 Deighton Material S Outside diameter 3-10 1/4 Length of plain part top bottom Thickness of plates crown bottom 5/8"

Description of longitudinal joint weld No. of strengthening rings Working pressure of furnace by the rules 211 Combustion chamber plates: Material S Thickness: Sides 2 1/32 Back 1 1/16 Top 2 1/32 Bottom 1 3/16 Pitch of stays to ditto: Sides 8 1/2 x 8 3/4 Back 9 x 9"

Top 8 1/2 x 8 3/4 If stays are fitted with nuts or riveted heads Yes Working pressure by rules 207 Material of stays Iron Area at smallest part 4.3 Area supported by each stay 42.25 Working pressure by rules 207 End plates in steam space: Material S Thickness 1 1/32

Pitch of stays 22 1/2 x 1 1/4 How are stays secured DN-W Working pressure by rules 208 Material of stays S Area at smallest part 4.85

Area supported by each stay 393.76 Working pressure by rules 22.1 Material of Front plates at bottom S Thickness 1" Material of Lower back plate S Thickness 2 1/32 Greatest pitch of stays 14' 9" Working pressure of plate by rules 207 Diameter of tubes 2 1/2"

Pitch of tubes 3 1/8 x 3 1/16 Material of tube plates S Thickness: Front 1" Back 2 3/32 Mean pitch of stays 9' 2" Pitch across wide water spaces 13 1/2 Working pressures by rules 205 Girders to Chamber tops: Material S Depth and thickness of girder at centre 10 1/8 x 3 1/4 (2) Length as per rule 34.6 Distance apart 8 3/4 Number and pitch of Stays in each 3 at 8 1/2"

Working pressure by rules 206 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

UPERHEATER 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

FOR JOHN G. KINCAID & COY. LTD. The foregoing is a correct description, J. G. Kincaid Manufacturer.

Is the approved plan of boiler forwarded herewith Yes

Dates of Survey During progress of work in shops - - -

while During erection on board vessel - - - See Machinery Report.

building

Survey Fee £ When applied for, 19

When received, 19

Committee's Minute GLASGOW 18 JAN 1927

signed See accompanying report W. Gordon Sinclair

Engineer Surveyor to Lloyd's Register of Shipping. TUES. 19 JUL 1927 WED. 11 APR 1928 FRI. 27 FEB 1931 TUE. 4 JUN 1925 FRI. 1 MAY 1930 FRI. 14 FEB 1930