

REPORT ON BOILERS.

No. 18668

Received at London Office

Date of writing Report

2.11.26

When handed in at Local Office

17/3/

1927

Port of

Greenock

No. in
Reg. Book.

Survey held at

Greenock

Date, First Survey 3rd August, 1925.Last Survey 16th March, 1927.

1927.

on the

T/s's "Raleighstar" "Napierstar"

Gross
Net

Master

Built at

P. H. Longou

By whom built

Lithgow & Co.

When built 1927

Engines made at

Walkers

By whom made

Parsons Marine Steam Turbine Co. Ltd.

When made 1926

Boilers made at

Greenock

By whom made

John & Nye & Co. Ltd. (Glasg.)

When made 1927

Registered Horse Power

Owners

Blue Star Line (1926) Ltd.

Port belonging to London.

MULTITUBULAR BOILERS—MAIN, ~~APPLICABLE TO DONKEY~~.—Manufacturers of Steel Krupp, B. & W. L. & Co. Ltd., Glasgow.

Letter for record R. ✓ Total Heating Surface of Boilers 7822 ✓ Is forced draft fitted yes ✓ No. and Description of Boilers 2 Single Ended ✓ Working Pressure 200 ✓ Tested by hydraulic pressure to 350 ✓ Date of test 11.5.26 ✓

No. of Certificate 1424 ✓ Can each boiler be worked separately yes ✓ Area of fire grate in each boiler 404 ✓ No. and Description of safety valves to each boiler 2 Backless Improved High Lift ✓ Area of each valve 406 ✓ 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 —

Smallest distance between boilers or uptakes and bunkers or woodwork 5-0 ✓ Main dia. of boilers 17-6 ✓ Length 12-0 ✓

Material of shell plates S ✓ Thickness 19/32 ✓ Range of tensile strength 28/32 ✓ Are the shell plates welded or flanged ✓

Descrip. of riveting: cir. seams DR ✓ long. seams TR. O. B. S. ✓ Diameter of rivet holes in long. seams 19/32 ✓ Pitch of rivets 10 1/2 ✓

Cap of plates or width of butt straps 1-11/8 ✓ Per centages of strength of longitudinal joint rivets 91.7 ✓ Working pressure of shell by rules 201. ✓ Size of manhole in shell 16 1/2 x 20 1/2 ✓ Size of compensating ring 33 1/8 x 38 1/8 x 19/32 ✓ No. and Description of Furnaces in each boiler 4 Duglison ✓ Material S ✓ Outside diameter 3-10 1/4 ✓ Length of plain part top ✓ Thickness of plates crown 5/8 ✓ 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 21/32 ✓ Back 11/16 ✓ Top 21/32 ✓ Bottom 13/16 ✓ 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 nuts ✓ Working pressure by rules 204. ✓ Material of stays Iron ✓ Area at smallest part 1.43 ✓ Area supported by each stay 72.25 ✓ Working pressure by rules 204. ✓ End plates in steam space: Material S ✓ Thickness 11/32 ✓

Pitch of stays 22 1/2 x 14 1/2 ✓ How are stays secured D.N.W. ✓ Working pressure by rules 208. ✓ Material of stays S ✓ Area at smallest part 4.65 ✓

Area supported by each stay 393.75 ✓ Working pressure by rules 221. ✓ Material of Front plates at bottom S ✓ Thickness 1" ✓ Material of Lower back plate S ✓ Thickness 24/32 ✓ Greatest pitch of stays 14.9 ✓ Working pressure of plate by rules 204. ✓ Diameter of tubes 2 1/2" ✓

Pitch of tubes 3 1/2 x 3 1/2 ✓ Material of tube plates S ✓ Thickness: Front 1" ✓ Back 23/32 ✓ 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 15 1/8 x 3 1/4 (2) ✓ Length as per rule 24-6 ✓ Distance apart 83/4 ✓ 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 —

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 —

FOR JOHN G. KINGALD & COY. LIMITED

The foregoing is a correct description,

J. G. Kingal & Co. Ltd. Manufacturer.

Dates } During progress of }
Survey } work in shops - - }
while } During erection on }
building } board vessel - - }

See Machinery Report.

Is the approved plan of boiler forwarded herewith

DIRECTOR

Yes ✓

Total No. of visits 98.

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 now been securely fitted on board (Dupl of 7s Rodmans Dr. Sub Rpt. 9.18643)

This Report accompanies that of the Machinery

Survey Fee

£

When applied for, 19

When received, 19

charged on Machinery Rpt.

W. Gordon-Mitchell

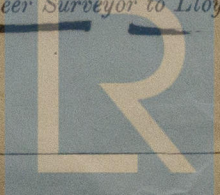
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 22 MAR 1927

Assigned See accompanying mach. report

W349-0241



Lloyd's Register Foundation